

10/CS8, 417

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NEWS 4 DEC 08 INPADOC: Legal Status data reloaded  
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NEWS 7 OCT 21 BIOSIS file reloaded and enhanced  
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced  
NEWS 9 NOV 24 MSDS-CCOHS file reloaded  
NEWS 10 DEC 08 CABA reloaded with left truncation  
NEWS 11 DEC 08 IMS file names changed  
NEWS 12 DEC 09 Experimental property data collected by CAS now available in REGISTRY  
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAPLUS  
NEWS 14 DEC 17 DGENE: Two new display fields added  
NEWS 15 DEC 18 BIOTECHNO no longer updated  
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer available  
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS databases  
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields  
NEWS 19 DEC 22 ABI-INFORM now available on STN  
NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated and searchable  
NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in CA/CAPLUS  
NEWS 22 FEB 05 German (DE) application and patent publication number format changes

NEWS EXPRESS DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003

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FILE 'STNGUIDE' ENTERED AT 16:17:14 ON 17 FEB 2004  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Feb 13, 2004 (20040213/UP).

FILE 'HOME' ENTERED AT 16:17:17 ON 17 FEB 2004

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 FEB 2004 HIGHEST RN 651003-77-9  
DICTIONARY FILE UPDATES: 16 FEB 2004 HIGHEST RN 651003-77-9

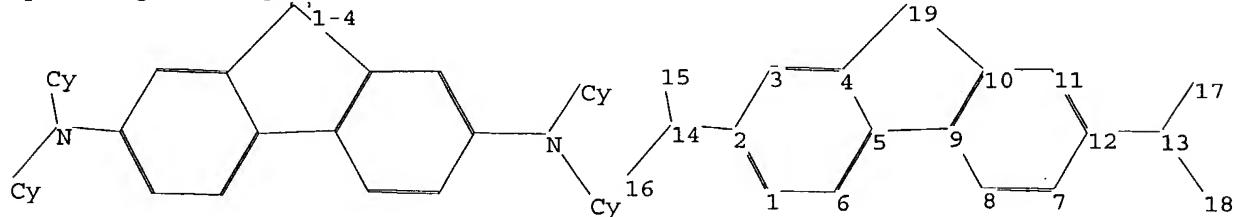
TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\10658417.str



chain nodes :

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13 14 15 16 17 18
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 19
chain bonds :
2-14 12-13 13-17 13-18 14-15 14-16
ring bonds :
1-2 1-6 2-3 3-4 4-5 4-19 5-6 5-9 7-8 7-12 8-9 9-10 10-11 10-19 11-12
exact/norm bonds :
2-14 4-19 5-9 10-19 12-13 13-17 13-18 14-15 14-16
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

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Match level :

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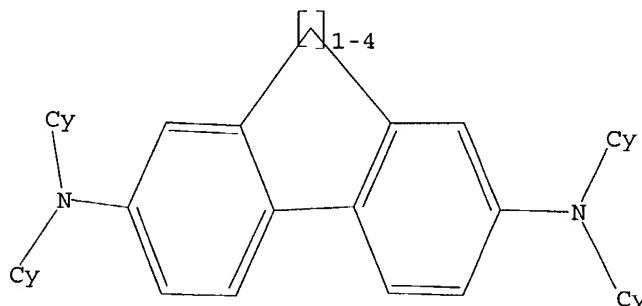
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11:Atom 12:Atom 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

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L1           STRUCTURE UPLOADED

=> d query

L1           STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 16:17:45 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 12626 TO ITERATE

7.9% PROCESSED   1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

3 ANSWERS

FULL FILE PROJECTIONS:   ONLINE   \*\*COMPLETE\*\*  
                          BATCH    \*\*COMPLETE\*\*  
PROJECTED ITERATIONS:    245792 TO   259248  
PROJECTED ANSWERS:       388 TO     1126

L2           3 SEA SSS SAM L1

=> s 11 full  
FULL SEARCH INITIATED 16:17:53 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 253020 TO ITERATE

100.0% PROCESSED 253020 ITERATIONS  
SEARCH TIME: 00.00.06

850 ANSWERS

L3           850 SEA SSS FUL L1

=> fil caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	155.42	155.90

FILE 'CAPLUS' ENTERED AT 16:18:06 ON 17 FEB 2004  
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FILE COVERS 1907 - 17 Feb 2004 VOL 140 ISS 8  
FILE LAST UPDATED: 16 Feb 2004 (20040216/ED)

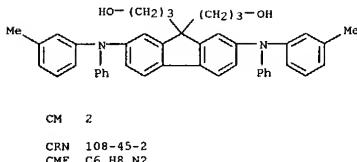
This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s 13
L4          224 L3

=> d 14 200-224 abs ibib hitstr
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L4 ANSWER 200 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN  
 AB In the title electrophotog. imaging method, a photoreceptor which comprises on its elec. conductive support a photosensitive layer containing a polymeric charge-transporting material is utilized, and charging of the photoreceptor is effected by an elec. conductive material which is pressed against the photoreceptor and to which an elec. voltage is applied.  
 ACCESSION NUMBER: 1995:921945 CAPLUS  
 DOCUMENT NUMBER: 123:325717  
 TITLE: Electrophotographic imaging method  
 INVENTOR(S): Mashita, Kyokazu; Kojima, Fumio; Kobayashi, Tomoo; Okano, Sadao; Nakuda, Katsumi; Imai, Akira; Igarashi, Ryosaku  
 PATENT ASSIGNEE(S): Fuji Xerox Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

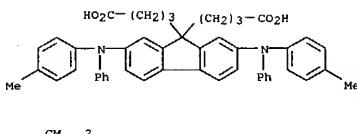
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07195053	A2	19950804	JP 1994-11370	19940107
PRIORITY APPLN. INFO.: JP 1994-11370 19940107				
IT 170368-55-5 170368-57-7 170368-59-9				
RL: DEV (Device component use); USES (Uses) (polymeric charge-transporting material for electrophotog. photoreceptor)				
RN 170368-55-5 CAPLUS				
CN Carbonic dichloride, polymer with 1,3-benzenediamine and 2,7-bis[(3-methylphenyl)phenylamino]-9H-fluorene-9,9-dipropanol (9CI) (CA INDEX NAME)				
CM 1				
CRN 137269-26-2				
CMF C45 H44 N2 O2				



CM 2  
 CRN 108-45-2  
 CMF C6 H8 N2 O2



L4 ANSWER 200 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 2  
 CRN 505-48-6  
 CMF C8 H14 O4

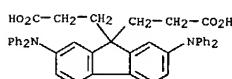
HO<sub>2</sub>C-(CH<sub>2</sub>)<sub>6</sub>-CO<sub>2</sub>H

L4 ANSWER 200 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

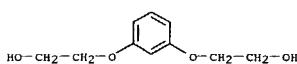
CM 3  
 CRN 75-44-5  
 CMF C Cl2 O



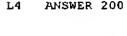
RN 170368-57-7 CAPLUS  
 CN 9H-Fluorene-9,9-dipropanoic acid, 2,7-bis(diphenylamino)-, polymer with 2,2'-(1,3-phenylenebis(oxy))bis[ethanol] (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 170368-56-6  
 CMF C43 H36 N2 O4



CM 2  
 CRN 102-40-9  
 CMF C10 H14 O4



RN 170368-59-9 CAPLUS  
 CN 9H-Fluorene-9,9-dibutanoic acid, 2,7-bis[(4-methylphenyl)phenylamino]-, polymer with octanedioic acid (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 170368-58-8  
 CMF C47 H44 N2 O4



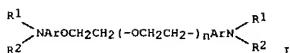
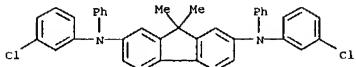
L4 ANSWER 201 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN  
 AB An electrophotog. photosensitive member comprises a conductive support, a photosensitive layer and a protective layer, the protective layer containing resin formed by hardening a light-setting type acrylic monomer, and the photosensitive layer containing  $\geq 1$  compound selected from the group consisting of (A), (B) and (C) below: (A) styryl compds.  
 (Ar1)[Ar2]N-Ac3-(CH<sub>2</sub>C(R2))n-R1 (m.p.  $\leq 150^\circ$ ) [Ar1 and Ar2 are aromatic ring groups, Ar3 is a bivalent aromatic ring group or a bivalent heterocyclic group, R1 is an alkyl group or an aromatic ring group, R2 is a H atom, an alkyl group or an aromatic ring group, and n is 1 or 2, R1 and R2 possibly linking to form a ring when n = 1]; (B) triarylamine compound having a structure expressed by the following formula Ar<sub>4</sub>Ar<sub>5</sub>NAr<sub>6</sub> (m.p.  $\leq 150^\circ$ ) [Ar4, Ar5 and Ar6 = aromatic ring group or a heterocyclic group]; (C) hydrazone compds. A-[CR3:NNR4R5]m (m.p.  $\leq 150^\circ$ ) [R3 is a H atom or an alkyl group, R4 and R5 are alkyl groups, aralkyl groups or aromatic ring groups, m is 1 or 2, A is an aromatic ring group, a heterocyclic group or -CH<sub>2</sub>C(R6)R7 (R6 and R7 are H atoms, aromatic ring groups or heterocyclic groups, but will never be H atoms at the same time)]. The photosensitive member suppresses the occurrence of cracks during forming of the protective layer, has high durability, and is free from any image defects.

ACCESSION NUMBER: 1995:662912 CAPLUS  
 DOCUMENT NUMBER: 123:270709  
 TITLE: Electrophotographic photosensitive member and electrophotographic apparatus, device unit and facsimile machine using the same  
 INVENTOR(S): Maruyama, Akio; Kikuchi, Toshiro; Amamiya, Shoji; Nagahara, Shin; Aoki, Katsumi  
 PATENT ASSIGNEE(S): Canon K. K., Japan  
 SOURCE: U.S., 43 pp. Cont.-in-part of U.S. Ser. No. 852,720, abandoned.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5422210	A	19950606	US 1992-968465	19921029
JP 05100464	A2	19930423	JP 1992-62306	19920318
JP 2584930	B2	19970226		

PRIORITY APPLN. INFO.: JP 1991-77290 19910318  
 IT 145068-92-4 JP 1991-77291 19910318  
 RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)  
 (charge transport agent for electrophotog. photoconductor)  
 RN 145068-92-4 CAPLUS  
 CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-9,9-dimethyl-N,N'

(Continued)



AB In the title electrophotog. photoreceptor comprising a charge-generating layer and a charge-transporting layer on an elec. conductive support, the charge-generating layer contains I (Ar = phenylene, biphenylene; R<sub>1,2</sub> = alkyl, aryl; n = 1-4), or other compds. specified. This photoreceptor shows high sensitivity and good chargeability.

ACCESSION NUMBER: 1995:623514 CAPLUS

DOCUMENT NUMBER: 123:22137

TITLE: Electrophotographic photoreceptor

INVENTOR(S): Umeda, Minoru; Niimi, Tatsuya

PATENT ASSIGNEE(S): Ricoh KK, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 130 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07072634	A2	19950317	JP 1993-294803	19931029

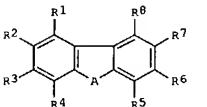
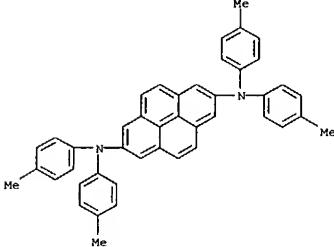
PRIORITY APPLN. INFO.: JP 1993-177394 19930624

IT 163969-53-7

RL: DEV (Device component use); USES (Uses)  
(electrophotog. photoreceptor charge-generating layer from)

RN 163969-53-7 CAPLUS

CN 2,7-Pyrenediamine, N,N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)



AB The materials contain compds. I [A = CH<sub>2</sub>, O, S, SO<sub>2</sub>, Se, Te, C:C(N)C<sub>2</sub>, NR<sub>9</sub>, PR<sub>10</sub>, C:O, C:S, C:Se, C:Te; R<sub>1-10</sub> = H, halo, cyano, NO<sub>2</sub>, (mono- or di-substituted) NH<sub>2</sub>, ester, acylamino, OH, alkoxy, mercapto, alkyloxy, alkylthio, aryloxy, siloxy, acyl, cycloalkyl, carbamoyl, CO<sub>2</sub>H, SO<sub>3</sub>H, (substituted) aliphatic, (substituted) alicyclic, (substituted) carbocyclic aromatic, (substituted) heterocyclic aromatic, (substituted) heterocyclic; adjacent groups may form (substituted) alicyclic, (substituted) carbocyclic aromatic, (substituted) heterocyclic. (aromatic)]. In the devices containing electroluminescent layers comprising organic compound thin films sandwiched by a pair of electrodes, at least one layer contains the materials.

ACCESSION NUMBER: 1995:541602 CAPLUS

DOCUMENT NUMBER: 123:156553

TITLE: Organic electroluminescent device materials and organic electroluminescent devices with them

INVENTOR(S): Enokida, Toshio; Ogawa, Tadashi

PATENT ASSIGNEE(S): Toyo Ink Mfg Co, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07053950	A2	19950228	JP 1993-198454	19930810

JP 3114445 B2 200001204

JP 2001043979 A2 20010216 JP 2000-174677 19930810

PRIORITY APPLN. INFO.: JP 1993-198454 A3 19930810

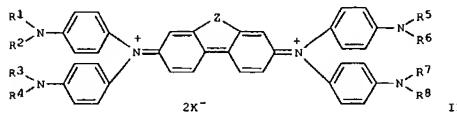
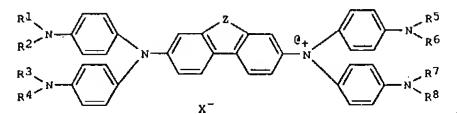
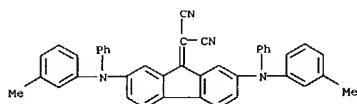
OTHER SOURCE(S): MARPAT 123:156553

IT 166745-87-5

RL: DEV (Device component use); PRP (Properties); USES (Uses)  
(electroluminescent devices containing cyclic aromatic derivs.)

RN 166745-87-5 CAPLUS

CN Propanedinitrile, [2,7-bis(3-methylphenyl)phenylamino]-9H-fluoren-9-ylidene)- (9CI) (CA INDEX NAME)

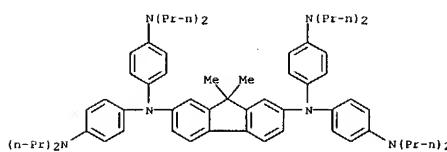


AB The title medium comprises an organic dye recording layer containing I and/or II  
( Z = CR9R10, C:CR11R12; X- = anion; R1-8 = C1-8 alkyl, alkoxy alkyl, alkenyl, aralkyl, alkynyl; R9-12 = H, halo, monovalent organic residual group )

ACCESSION NUMBER: 1995-528511 CAPLUS  
DOCUMENT NUMBER: 122:278238  
TITLE: Optical recording medium with improved heat- and light-resistant characteristics  
INVENTOR(S): Santo, Takeshi; Tamura, Miki; Sugata, Hiroyuki; Miura, Cheko  
PATENT ASSIGNEE(S): Canon Kk, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 61 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06297855	A2	19941025	JP 1993-115229	19930420
PRIORITY APPN. INFO.:			JP 1993-115229	19930420
OTHER SOURCE(S): MARPAT 122:278238				
IT 162817-13-2 162817-15-4 162817-17-6 162817-19-6 162817-20-1 162817-22-3 162817-24-5 162817-26-7 162817-28-9 162817-30-3 162817-46-1 162817-48-3 162817-50-7 162817-52-9 162817-54-1 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses) (optical recording medium with heat- and light-resistant characteristics) RN 162817-13-2 CAPLUS				

CM 1

CRN 162817-12-1  
CMF C63 H84 N6  
CCI RIS

CM 2

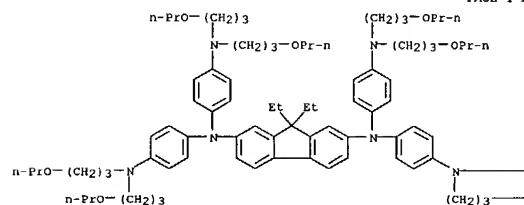
CRN 14797-73-0  
CMF Cl O4

RN 162817-15-4 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis[4-(bis(3-propoxypropyl)amino)phenyl]-9,9-diethyl-, radical ion(1+), methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 162817-14-3  
CMF C89 H136 N6 O8  
CCI RIS

PAGE 1-A



PAGE 1-B

—(CH2)3—OPr-n

—OPr-n

CM 2

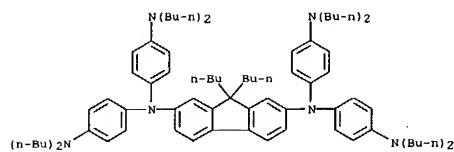
CRN 21228-90-0  
CMF C H3 O4 S

Me—O—SO3-

RN 162817-17-6 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-dibutyl-N,N,N',N'-tetrakis[4-(dibutylamino)phenyl]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 162817-16-5  
CMF C77 H112 N6  
CCI RIS



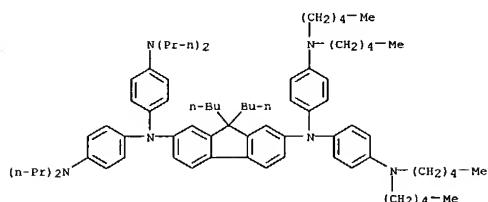
CM 2

CRN 14797-73-0  
CMF C1 O4

RN 162817-19-8 CAPLUS

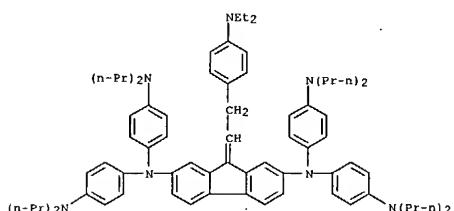
CN 9H-Fluorene-2,7-diamine, 9,9-dibutyl-N,N-bis[4-(dipropylamino)phenyl]- $N,N'$ -bis[4-(dipropylamino)phenyl]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 162817-18-7  
CMF C77 H112 N6  
CCI RIS

CM 2

CRN 14797-73-0

CRN 162817-21-2  
CMF C73 H95 N7  
CCI RIS

CM 2

CRN 14797-73-0  
CMF C1 O4

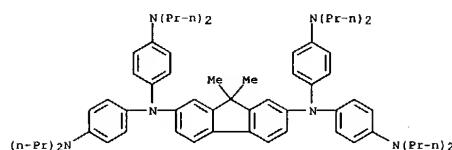
RN 162817-24-5 CAPLUS

CN 9H-Fluorene-2,7-diamine,  $N,N,N',N'$ -tetrakis[4-[bis(3-propoxypropyl)amino]phenyl]-9-(1-methylethyldiene)-, radical ion(1+), methyl sulfate (9CI) (CA INDEX NAME)

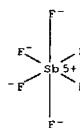
CM 1

CRN 162817-23-4  
CMF C88 H132 N6 O8  
CCI RISRN 162817-20-1 CAPLUS  
CN Antimonate(1-), hexafluoro-, (OC-6-11)-, salt with  $N,N,N',N'$ -tetrakis[4-(dipropylamino)phenyl]-9,9-dimethyl-9H-fluorene-2,7-diamine (1:1) (9CI) (CA INDEX NAME)

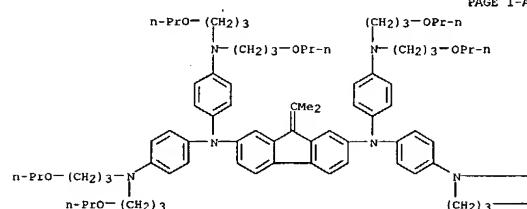
CM 1

CRN 162817-12-1  
CMF C63 H84 N6  
CCI RIS

CM 2

CRN 17111-95-4  
CMF F6 Sb  
CCI CCSRN 162817-22-3 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9-(2-[4-(diethylamino)phenyl]ethylidene)- $N,N,N',N'$ -tetrakis[4-(dipropylamino)phenyl]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

 $\longrightarrow (CH_2)_3-OPr-n$  $\longrightarrow OPr-n$ 

CM 2

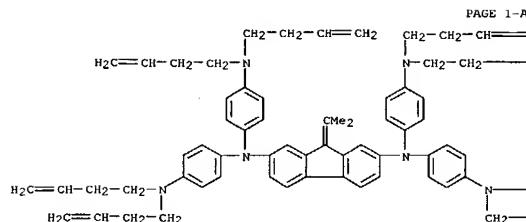
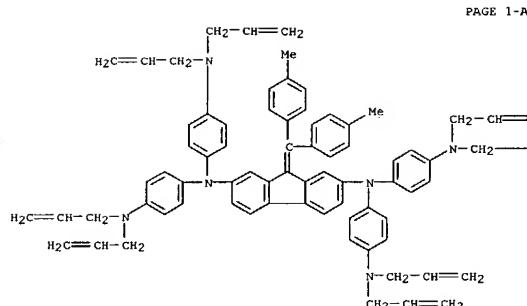
CRN 21228-90-0  
CMF C H3 O4 S

Me=O=S03-

RN 162817-26-7 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9-(bis(4-methylphenyl)methylene)- $N,N,N',N'$ -tetrakis[4-(di-2-propenylamino)phenyl]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 162817-25-6  
CMF C76 H76 N6  
CCI RIS



$\equiv \text{CH}_2$   
 $\text{---CH}=\text{CH}_2$

$\text{---CH}_2\text{---CH}_2\text{---CH}=\text{CH}_2$   
 $\text{---CH}_2\text{---CH}=\text{CH}_2$

$\equiv \text{CH}_2$

$\text{---CH}=\text{CH}_2$

CM 2

CRN 14797-73-0  
CMF Cl O4



RN 162817-28-9 CAPLUS  
CN 9H-Fluorene-2,7-diamine,  
N,N,N',N'-tetrakis[4-(di-3-butylamino)phenyl]-9-  
(1-methylethyldene)-, radical ion(1+), perchlorate (9CI) (CA INDEX  
NAME)

$\text{---CH}_2\text{---CH}_2\text{---CH}=\text{CH}_2$   
 $\text{---CH}_2\text{---CH}=\text{CH}_2$

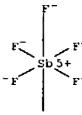
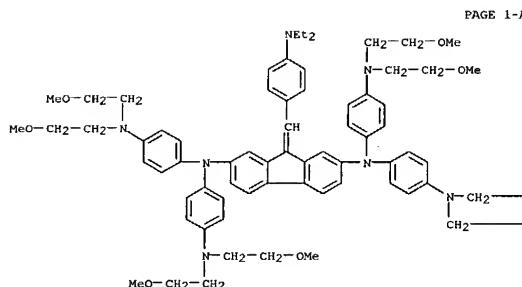
CM 2  
CRN 14797-73-0  
CMF Cl O4



RN 162817-30-3 CAPLUS  
CN Antimonate(1-), hexafluoro-, (OC-6-11)-, salt with N,N,N',N'-tetrakis[4-  
(bis(2-methoxyethyl)amino)phenyl]-9-[(4-(diethylamino)phenyl)methylene]-9H-  
fluorene-2,7-diamine (1:1) (9CI) (CA INDEX NAME)

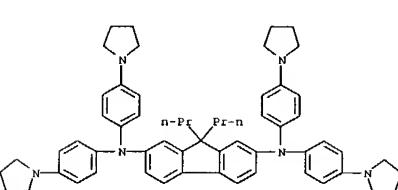
CM 1

CRN 162817-29-0  
CMF C72 H93 N7 O8  
CCI RIS



RN 162817-46-1 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-dipropyl-N,N,N',N'-tetrakis[4-(1-  
Pyrrolidinyl)phenyl]-, radical ion(1+), perchlorate (9CI) (CA INDEX  
NAME)

CM 1  
CRN 162817-45-0  
CMF C59 H68 N6  
CCI RIS



CM 2  
CRN 14797-73-0  
CMF Cl O4

$\text{---CH}_2\text{---OMe}$   
 $\text{---CH}_2\text{---OMe}$

CM 2

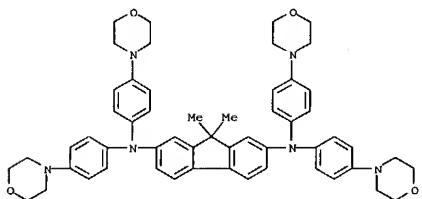
RN 162817-48-3 CAPLUS  
CN Arsenate(1-), hexafluoro-, salt with  
9,9-dimethyl-N,N,N',N'-tetrakis[4-(4-



L4 ANSWER 204 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
morpholinyl)phenyl]-9H-fluorene-2,7-diamine (1:1) (9CI) (CA INDEX NAME)

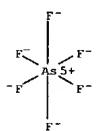
CM 1

CRN 162817-47-2  
CMF C55 H60 N6 O4  
CCI RIS



CM 2

CRN 16973-45-8  
CMF As F6  
CCI CCS

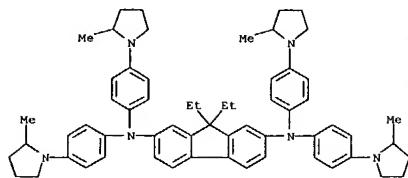


RN 162817-50-7 CAPLUS  
CN Antimonate(1-), hexafluoro-, (OC-6-11)-, salt with 9,9-diethyl-N,N,N',N'-tetraakis[4-(2-methyl-1-pyrrolidinyl)phenyl]-9H-fluorene-2,7-diamine (1:1) (9CI) (CA INDEX NAME)

CM 1

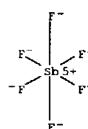
CRN 162817-49-4  
CMF C61 H72 N6  
CCI RIS

L4 ANSWER 204 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 2

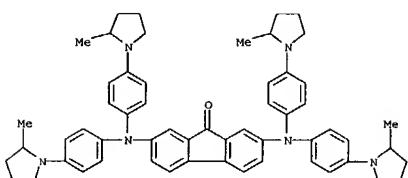
CRN 17111-95-4  
CMF F6 Sb  
CCI CCS



RN 162817-52-9 CAPLUS  
CN 9H-Fluoren-9-one, 2,7-bis[bis[4-(2-methyl-1-pyrrolidinyl)phenyl]amino]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 162817-51-8  
CMF C57 H62 N6 O  
CCI RIS



L4 ANSWER 204 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 204 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CM 2

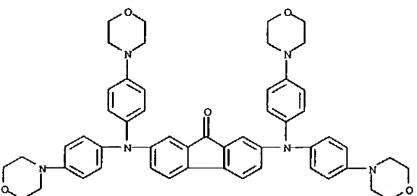
CRN 14797-73-0  
CMF Cl1 O4



RN 162817-54-1 CAPLUS  
CN Arsenate(1-), hexafluoro-, salt with 2,7-bis[bis[4-(4-morpholinyl)phenyl]amino]-9H-fluoren-9-one (1:1) (9CI) (CA INDEX NAME)

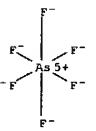
CM 1

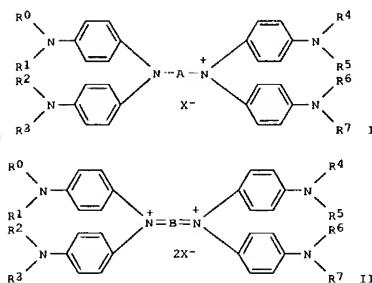
CRN 162817-53-0  
CMF C53 H54 N6 O5  
CCI RIS



CM 2

CRN 16973-45-8  
CMF As F6  
CCI CCS





**AB** The title compound has a formula I or II ( $R_0=H$ , monovalent organic residue while at least 1 of them contains F; or at least 1 group of  $R_0$  and  $R_1$ ,  $R_2$  and  $R_3$ ,  $R_4$  and  $R_5$  and  $R_6$  and  $R_7$  being atoms required to form a 5-7-membered ring with N while others being H, monovalent organic residue;  $A$ ,  $B$  = specified aromatic group;  $X$  = anion). The recording medium contains the above compound in its recording layer. The compound shows good solubility and heat resistance to give recording medium with superior light and heat-resistance.

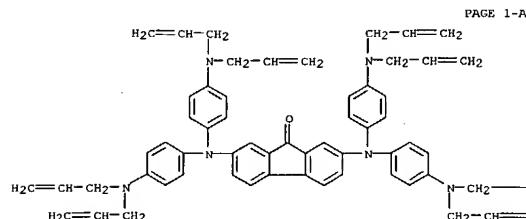
ACCESSION NUMBER: 1994:712146 CAPLUS  
DOCUMENT NUMBER: 121:312146  
TITLE: IR-absorbing compound and optical recording medium using same  
INVENTOR(S): Miura, Cheko; Tamura, Miki; Santo, Takeshi; Sugata, Hiroyuki  
PATENT ASSIGNEE(S): Canon KK, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 109 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06024146	A2	19940201	JP 1993-110576	19930512
PRIORITY APPLN. INFO.:			JP 1992-145046	19920512
IT 159253-51-7 159253-53-9 159253-54-0				

159253-56-2 159253-58-4 159253-60-8  
RN: USES (Uses)  
(IR-absorbent, optical recording medium using)  
CN: 9H-Fluoren-9-one, 2,7-bis[bis[4-(di-2-propenylamino)phenyl]amino]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 159253-50-6  
CMF C61 H62 N6 O  
CCI RIS



PAGE 1-B

—CH=CH2  
—CH2

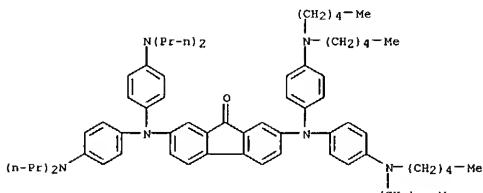
CM 2  
CRN 14797-73-0  
CMF C1 O4



RN 159253-53-9 CAPLUS  
CN 9H-Fluoren-9-one, 2-[bis[4-(dipentylamino)phenyl]amino]-7-[bis[4-(dipropylamino)phenyl]amino]-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 159253-52-8  
CMF C69 H94 N6 O  
CCI RIS



CM 2

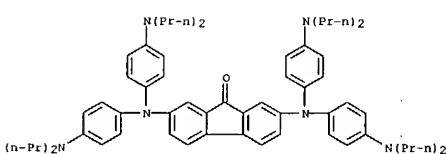
CRN 14797-73-0  
CMF C1 O4



RN 159253-54-0 CAPLUS  
CN Antimonate(1-), hexafluoro-, (OC-6-11)-, salt with 2,7-bis[bis[4-(dipropylamino)phenyl]amino]-9H-fluoren-9-one (1:1) (9CI) (CA INDEX NAME)

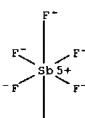
CM 1

CRN 159253-48-2  
CMF C61 H78 N6 O  
CCI RIS



CM 2

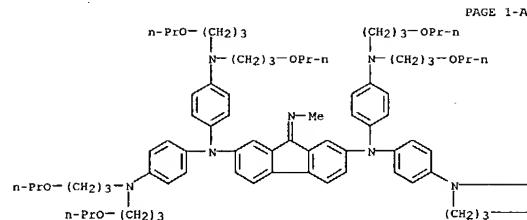
CRN 17111-95-4  
CMF F6 Sb  
CCI CCS



RN 159253-56-2 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis[4-(3-propoxypropyl)amino]phenyl]-9-(methylimino)-, radical ion(1+), methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 159253-55-1  
CMF C86 H129 N7 O8  
CCI RIS



PAGE 1-B

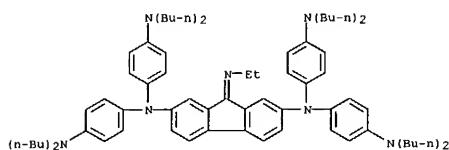
$\text{---}(\text{CH}_2)_3\text{---OPr-n}$   
 $\text{---OPr-n}$

CM 2  
CRN 21228-90-0  
CMF C H3 O4 S

Me=O-SO<sub>3</sub><sup>-</sup>

RN 159253-58-4 CAPLUS  
CN 9H-Fluorene-2,7-diamine,  
N,N,N',N'-tetrakis[4-(di-2-propenylamino)phenyl]-  
9-(2-propenylimino)-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

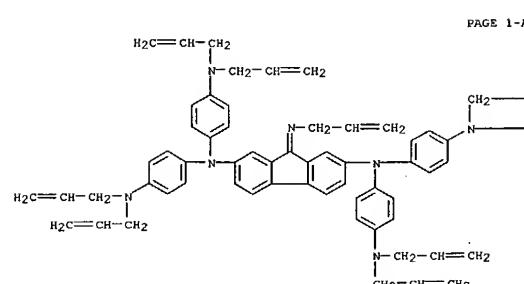
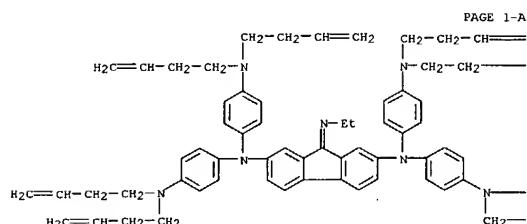
CM 1  
CRN 159253-57-3  
CMF C64 H67 N7  
CCI RIS



CM 2  
CRN 14797-73-0  
CMF Cl O4

O=Cl-O-  
RN 159253-62-0 CAPLUS  
CN 9H-Fluorene-2,7-diamine,  
N,N,N',N'-tetrakis[4-(di-3-butenylamino)phenyl]-9-  
(ethylimino)-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1  
CRN 159253-61-9  
CMF C71 H83 N7  
CCI RIS



PAGE 1-B

—CH=CH2  
—CH2—CH=CH2

CM 2  
CRN 14797-73-0  
CMF Cl O4

O=Cl-O-  
RN 159253-60-8 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis[4-(dibutylamino)phenyl]-9-  
(ethylimino)-, radical ion(1+), perchlorate (9CI) (CA INDEX NAME)

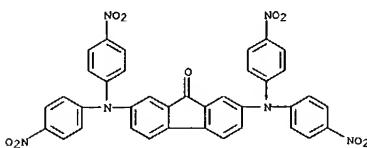
CM 1  
CRN 159253-59-5  
CMF C71 H99 N7



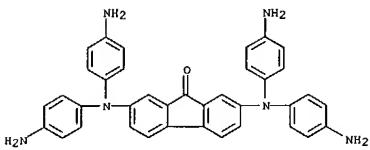
—CH2—CH2—CH=CH2  
—CH2—CH=CH2

CM 2  
CRN 14797-73-0  
CMF Cl O4

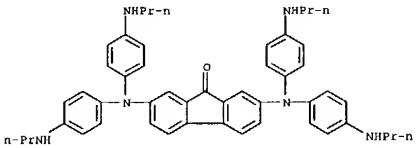
O=Cl-O-  
IT 159252-77-4P 159252-78-5P 159252-79-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and reaction of, IR-absorbing compound from, for optical  
recording medium)  
RN 159252-77-4 CAPLUS  
CN 9H-Fluoren-9-one, 2,7-bis(bis(4-nitrophenyl)amino)- (9CI) (CA INDEX  
NAME)



RN 159252-78-5 CAPLUS  
CN 9H-Fluoren-9-one, 2,7-bis(bis(4-aminophenyl)amino)- (9CI) (CA INDEX  
NAME)



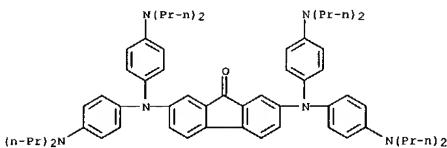
RN 159252-79-6 CAPLUS  
CN 9H-Fluoren-9-one, 2,7-bis[bis[4-(propylamino)phenyl]amino]- (9CI) (CA INDEX NAME)



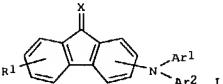
IT 159253-49-3P  
RL: SWN (Synthetic preparation); PREP (Preparation)  
(preparation and use of, as IR-absorbent, optical recording medium  
using)  
RN 159253-49-3 CAPLUS  
CN 9H-Fluoren-9-one, 2,7-bis[bis[4-(dipropylamino)phenyl]amino]-, radical  
ion(1+), perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 159253-48-2  
CMF C61 H78 N6 O  
CCI RIS



CM 2

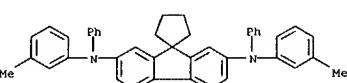


AB The title material possesses a photosensitive layer containing I [R1 = H, halo, alkyl, aralkyl, amino, alkoxy, OH; Ar1, Ar2 = aryl, heterocyclyl; X = (CH2)n; n = 2-10].  
ACCESSION NUMBER: 1994:711898 CAPLUS  
DOCUMENT NUMBER: 121:311898  
TITLE: Fluorene-type compound charge-transporting material using electrophotographic photoreceptor  
INVENTOR(S): Kikuchi, Norihiko; Senoo, Akihiro; Tanaka, Takakazu; Kanamaru, Tetsuo  
PATENT ASSIGNEE(S): Canon KK, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06102683	A2	19940415	JP 1992-274881	19920921
JP 2901348	B2	19991122		

PRIORITY APPLN. INFO.: JP 1992-274881 19920921  
OTHER SOURCE(S): MARPAT 121:311098  
IT 159322-30-2  
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)  
(charge-transporting material; Fluorene-type compound charge-transporting material using electrophotog. photoreceptor)

RN 159322-30-2 CAPLUS  
CN Spiro[cyclopentane-1,9'-[9H]fluorene]-2',7'-diamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 207 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN  
GI

An electrophotog. photosensitive member is constituted by disposing a photosensitive layer on an electroconductive support. The photosensitive layer is characterized by containing a specific fluorene compound or by containing another specific fluorene compound and a specific triphenylamine compound. The photosensitive layer is suitable for providing an electrophotog. apparatus showing excellent electrophotog. characteristics such as high photosensitivity, good potential stability in repetitive use, decreased transfer memory, no crack in the photosensitive layer and no crystallization of charge-transporting material.

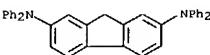
ACCESSION NUMBER: 1994:422447 CAPLUS  
DOCUMENT NUMBER: 121:22447  
TITLE: Electrophotographic photosensitive member  
INVENTOR(S): Kanemaru, Tetsuro; Kikuchi, Toshihiro; Senoo, Akihiro;  
PATENT ASSIGNEE(S): Tanaka, Takakazu  
SOURCE: Canon K. K., Japan  
Eur. Pat. Appl., 79 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

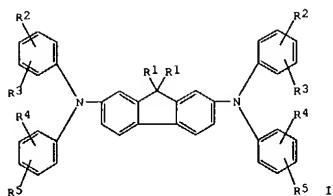
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 567396	A1	19931027	EP 1993-401030	19930421
EP 567396	B1	19990721		
JP 05303220	A2	19931116	JP 1992-129417	19920423
JP 2788200	B2	19980917		
JP 05303225	A2	19931116	JP 1992-129421	19920423
JP 2839053	B2	19981216		
US 5415962	A	19950516	US 1993-40526	19930420
JP 06011868	A2	19940411	JP 1993-57743	19930423
JP 3155856	B2	20010416		
CN 1082726	A	19940223	CN 1993-106367	19930423
CN 1086231	B	20020612		

PRIORITY APPLN. INFO.: JP 1992-129417 A 19920423  
JP 1992-129421 A 19920423  
JP 1992-129426 A 19920423

OTHER SOURCE(S): MARPAT 121:22447  
IT 155926-52-6  
RL: USES (Uses)  
(photosensitive compns. containing, for electrophotog photoreceptors)

RN 155926-52-6 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)





**AB** The device comprises a hole-transporting layer consisting of a fluorene amine derivative I (R1 = alkyl, aralkyl; R2-5 = H, alkyl, alkoxy, halo).

The device has a long-life stability with low threshold driver inputs.

ACCESSION NUMBER: 1994:90352 CAPIUS

DOCUMENT NUMBER: 120:90352

TITLE: Organic electroluminescent device

INVENTOR(S): Tokuma, Hirosuke

PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

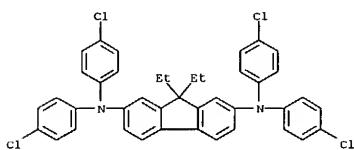
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

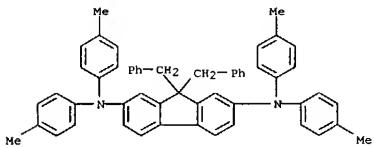
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

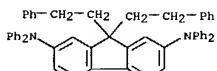
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05025473	A2	19930202	JP 1991-181161	19910722
JP 3065130	B2	20000712		
PRIORITY APPLN. INFO.:			JP 1991-181161	19910722
OTHER SOURCE(S):	MARPAT 120:90352			
IT 152008-55-4	152008-56-5	152008-57-6		
152008-58-7	152008-59-8	152008-60-1		
152008-61-2				
RL: PRP (Properties)	(hole transporter, in electroluminescent devices)			
RN 152008-55-4 CAPIUS				
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis(4-methoxyphenyl)-9,9-bis(1-methylethyl)- (9CI) (CA INDEX NAME)				



RN 152008-60-1 CAPIUS  
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis(4-methylphenyl)-9,9-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

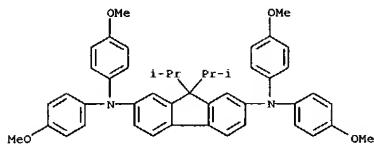


RN 152008-61-2 CAPIUS  
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetraphenyl-9,9-bis(2-phenylethyl)- (9CI) (CA INDEX NAME)

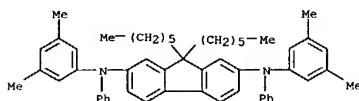


Ph-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-Ph

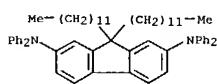
NH<sub>2</sub>-Ph



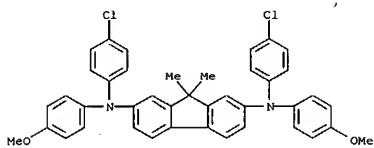
RN 152008-56-5 CAPIUS  
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3,5-dimethylphenyl)-9,9-dihexyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



RN 152008-57-6 CAPIUS  
CN 9H-Fluorene-2,7-diamine, 9,9-didodecyl-N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



RN 152008-58-7 CAPIUS  
CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-chlorophenyl)-N,N'-bis(4-methoxyphenyl)-9,9-dimethyl- (9CI) (CA INDEX NAME)



RN 152008-59-8 CAPIUS  
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetrakis(4-chlorophenyl)-9,9-diethyl- (9CI) (CA INDEX NAME)

AB The title material comprises a conductive support, a photosensitive layer and a protective layer, the protective layer containing resin formed by hardening a light-setting type acrylic monomer, and the photosensitive layer containing  $\geq 1$  compound selected from the group consisting of (A), (B) and (C) below: (A) styryl compds. having a structure Ar<sub>1</sub>Ar<sub>2</sub>Ar<sub>3</sub>(CH<sub>2</sub>)<sub>n</sub>R<sub>1</sub> and a m.p.  $\leq 135^\circ$ . [Ar<sub>1</sub> and Ar<sub>2</sub> are aromatic ring groups, Ar<sub>3</sub> is a bivalent aromatic ring group or a bivalent heterocyclic group, R<sub>1</sub> is an alkyl group or an aromatic ring group, R<sub>2</sub> is a H atom, an alkyl group or an aromatic ring group, and n is 1 or 2, R<sub>1</sub> and

R<sub>2</sub> possibly linking to form a ring when n = 1]; (B) triarylamine compds. having a structure Ar<sub>4</sub>Ar<sub>5</sub>Ar<sub>6</sub> and m.p.  $\leq 150^\circ$  [Ar<sub>4</sub>, Ar<sub>5</sub> and Ar<sub>6</sub> are each an aromatic ring group or a heterocyclic group]; (C)

hydrazone compds. having a structure A[C(R<sub>3</sub>):NNR<sub>4</sub>R<sub>5</sub>] [R<sub>3</sub> is a H atom or an alkyl group, R<sub>4</sub> and R<sub>5</sub> are alkyl groups, aralkyl groups or aromatic ring groups, m is 1 or 2, A is an aromatic ring group, a heterocyclic group, or -

CH<sub>2</sub>CR<sub>6</sub>R<sub>7</sub> (R<sub>6</sub> and R<sub>7</sub> are H atoms, aromatic ring groups or heterocyclic groups, but will

never be H atoms at the same time). The photosensitive member suppresses the occurrence of cracks during forming of the protective layer, has high durability, and is free from any image defects.

ACCESSION NUMBER: 1993:482826 CAPIUS

DOCUMENT NUMBER: 119:82826

TITLE: Electrophotographic photosensitive member and electrophotographic apparatus, device unit and facsimile machine using the same

INVENTOR(S): Maruyama, Akio; Kikuchi, Toshihiro; Amamiya, Shoji; Nagahara, Shin; Aoki, Katsumi; Tsuji, Haruyuki

PATENT ASSIGNEE(S): Canon K. K., Japan

SOURCE: Eur. Pat. Appl., 67 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 504794	A1	19920923	EP 1992-104575	19920317
EP 504794	B1	19980603		

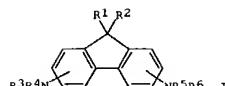
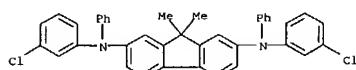
PRIORITY APPLN. INFO.: MARPAT 119:82826

IT 145068-92-4

RL: USES (Uses)  
(electrophotog. plate with protective layer containing, for crack reduction)

RN 145068-92-4 CAPIUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)

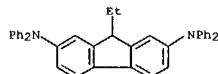


AB In the electrophotog. photoreceptor with a photosensitive layer coated on a support, the photosensitive layer contains crystal oxytitanium phthalocyanine having strong peaks in Bragg angle 20°  $\pm$  0.2° = 9.0, 14.2, 23.9, and 27.1° in x-ray diffraction spectrum using CuK $\alpha$ , and fluorene compound I (R1=H, (substituted) alkyl, (substituted) aralkyl, (substituted) aryl; R3-6 = (substituted) aryl). The photoreceptor shows stable charging property and high sensitivity to longer wave length such as laser diode.

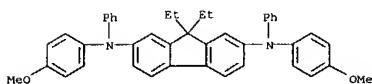
ACCESSION NUMBER: 199349248 CAPLUS  
DOCUMENT NUMBER: 118:49248  
TITLE: Electrophotographic photoreceptor using oxytitanium phthalocyanine and fluorene compound  
INVENTOR(S): Kikuchi, Norihiro; Tanaka, Takakazu; Senoo, Akihiro  
PATENT ASSIGNEE(S): Canon K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.  
CODEN: JKXXAF

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

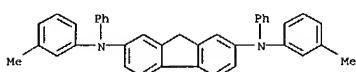
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04159557	A2	19920602	JP 1990-286397	19901023
PRIORITY APPLN. INFO.:			JP 1990-286397	19901023
IT 14482-18-7	114484-32-5	142517-32-6		
143886-09-3	143886-11-7	143886-14-0		
145068-92-4	145068-93-5	145068-94-6		
145068-95-7				
RL: USES (Uses) (charge-transferring agent, electrophotog. photoreceptor using)				
RN 114492-18-7 CAPLUS				
CN 9H-Fluorene-2,7-diamine, 9-ethyl-N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)				



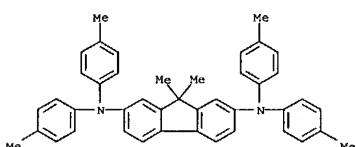
RN 114492-32-5 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N'-bis(4-methoxyphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



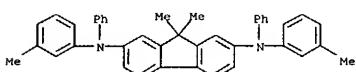
RN 142517-32-6 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



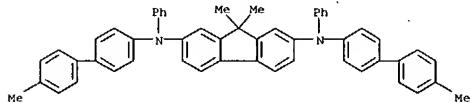
RN 143886-09-3 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-dimethyl-N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)



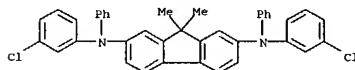
RN 143886-11-7 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-dimethyl-N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



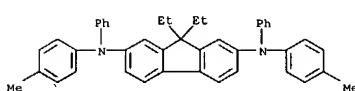
RN 143886-14-0 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-dimethyl-N,N'-bis(4'-methyl[1,1'-biphenyl]-4-yl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



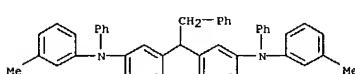
RN 145068-92-4 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



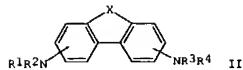
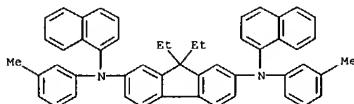
RN 145068-93-5 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N'-bis(4-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



RN 145068-94-6 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl-9-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 145068-95-7 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N'-bis(3-methylphenyl)-N,N'-di-1-naphthalenyl- (9CI) (CA INDEX NAME)



AB Claimed are (1) an electrophotog. photoconductor having a photosensitive layer, which comprises at least a charge-generating layer containing  $\geq 1$  titanoxophthalocyanine (I) and a charge-transporting layer containing  $\geq 1$  condensed aromatic cyclic derivs. II [R1-4 = (substituted) alkyl, aralkyl, aryl; X = CH<sub>2</sub>CH<sub>2</sub>, CH:CH], on an elec. conductive support, (2) an electrophotog. device using the photoconductor, and (3) a facsimile having

the device and a receptor for image from remote terminal. The photoconductor, e.g., a combination of I and II (R1-4 = p-ethylphenyl), is

useful for repeating use.

ACCESSION NUMBER: 1993:49232 CAPLUS

DOCUMENT NUMBER: 118:49232

TITLE: Electrophotographic photoconductor containing condensed aromatic cyclic derivative,

electrophotographic device, and facsimile using same

INVENTOR(S): Senoo, Akihiro; Kikuchi, Norihiro; Tanaka, Takakazu

PATENT ASSIGNEE(S): Canon K. K., Japan

SOURCE: Jpn Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

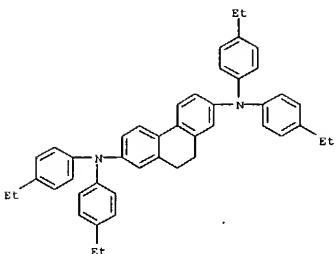
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

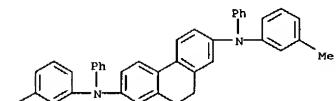
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 04186362	A2	19920703	JP 1990-314404	19901121
				JP 1990-314404	19901121
PRIORITY APPLN. INFO.:					
IT 113933-89-4	144726-98-7	144726-99-8			
145022-08-8	145022-09-9	145022-10-2			
145022-11-3	145022-12-4	145022-15-7			
145022-16-8	145022-17-9	145022-18-0			
145022-19-1	145257-04-1				
RI: USES (Uses)					
		(charge-transporting agent, for electrophotog. photoconductor, for facsimile)			
RN 113933-89-4	CAPLUS				
CN 2,7-Phenanthrediamine, N,N,N',N'-tetrakis(4-ethylphenyl)-9,10-dihydro-(9CI)	(CA INDEX NAME)				



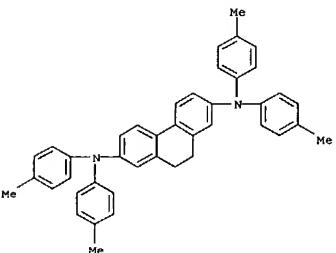
RN 144726-98-7 CAPLUS

CN 2,7-Phenanthrediamine, 9,10-dihydro-N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



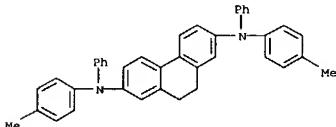
RN 144726-99-8 CAPLUS

CN 2,7-Phenanthrediamine, 9,10-dihydro-N,N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)



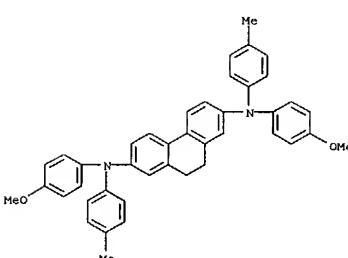
RN 145022-09-9 CAPLUS

CN 2,7-Phenanthrediamine, 9,10-dihydro-N,N'-bis(4-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



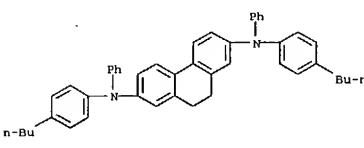
RN 145022-09-9 CAPLUS

CN 2,7-Phenanthrediamine, 9,10-dihydro-N,N'-bis(4-methoxyphenyl)-N,N'-bis(4-methylphenyl)- (9CI) (CA INDEX NAME)



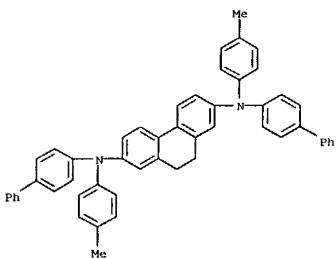
RN 145022-10-2 CAPLUS

CN 2,7-Phenanthrediamine, N,N'-bis(4-butylphenyl)-9,10-dihydro-N,N'-diphenyl- (9CI) (CA INDEX NAME)

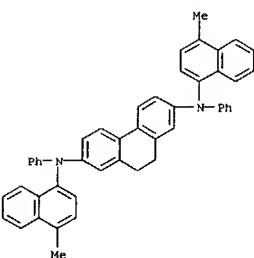


RN 145022-11-3 CAPLUS

L4 ANSWER 211 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN  
 CN 2,7-Phenanthrediamine,  
 N,N'-bis([1,1'-biphenyl]-4-yl)-9,10-dihydro-N,N'-  
 bis(4-methylphenyl)- (9CI) (CA INDEX NAME)

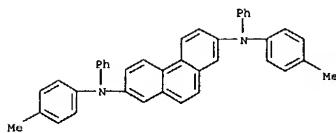


RN 145022-12-4 CAPLUS  
 CN 2,7-Phenanthrediamine, 9,10-dihydro-N,N'-bis(4-methyl-1-naphthalenyl)-  
 N,N'-diphenyl- (9CI) (CA INDEX NAME)

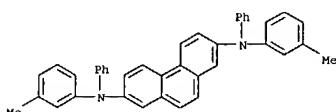


RN 145022-15-7 CAPLUS  
 CN 2,7-Phenanthrediamine, N,N'-bis(4-methylphenyl)-N,N'-diphenyl- (9CI)  
 (CA INDEX NAME)

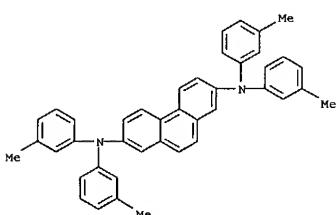
L4 ANSWER 211 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 145022-16-8 CAPLUS  
 CN 2,7-Phenanthrediamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI)  
 (CA INDEX NAME)

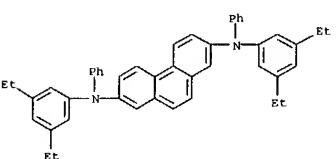


RN 145022-17-9 CAPLUS  
 CN 2,7-Phenanthrediamine, N,N,N',N'-tetrakis(3-methylphenyl)- (9CI) (CA INDEX NAME)

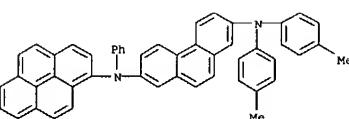


RN 145022-18-0 CAPLUS  
 CN 2,7-Phenanthrediamine, N,N'-bis(3,5-diethylphenyl)-N,N'-diphenyl- (9CI)  
 (CA INDEX NAME)

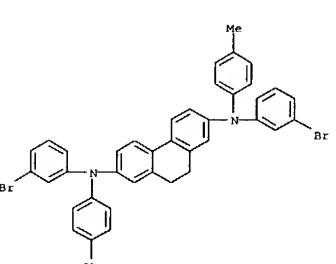
L4 ANSWER 211 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



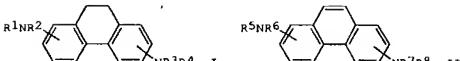
RN 145022-19-1 CAPLUS  
 CN 2,7-Phenanthrediamine, N,N'-bis(4-methylphenyl)-N'-phenyl-N'-1-pyrenyl- (9CI) (CA INDEX NAME)



RN 145257-04-1 CAPLUS  
 CN 2,7-Phenanthrediamine, N,N'-bis(3-bromophenyl)-9,10-dihydro-N,N'-bis(4-methylphenyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 212 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN GI



AB The photoreceptor contains oxytitanium phthalocyanine with x-ray diffraction peak (CuK $\alpha$ ) 9.0, 14.2, 23.9, and 27.1° (Bragg angle, 20±0.2°) and a dihydronaphthalene compound I or a phenanthrene compound II [R1-R8 = (substituted) alkyl, aralkyl, aryl].

The apparatus and facsimile using the photoreceptor are also claimed.  
 ACCESSION NUMBER: 1992-661648 CAPLUS  
 DOCUMENT NUMBER: 117:261648  
 TITLE: Electrophotographic photoreceptor containing oxytitanium phthalocyanine, its apparatus, and facsimile  
 INVENTOR(S): Kakuchi, Norihiro; Tanaka, Takakazu; Senoo, Akihiro  
 PATENT ASSIGNEE(S): Canon K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04181260	A2	19920629	JP 1990-308727	19901116
JP 2879369	B2	19990405		

PRIORITY APPLN. INFO.: JP 1990-308727 19901116  
 OTHER SOURCE(S): MARPAT 117:261648

IT 144726-98-7 144726-99-8 144727-00-4

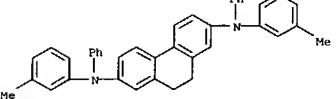
144727-01-5 144727-03-7 144727-05-9

RL TEM (Technical or engineered material use); USES (Uses)

(electrophotographic photoreceptor charge-transporting agent)

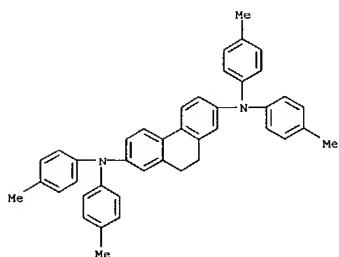
RN 144726-98-7 CAPLUS

CN 2,7-Phenanthrediamine, 9,10-dihydro-N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)

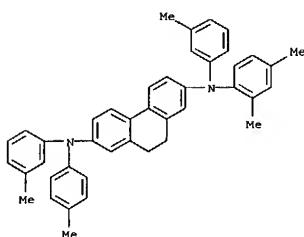


RN 144726-99-8 CAPLUS  
 CN 2,7-Phenanthrediamine, 9,10-dihydro-N,N',N',N'-tetrakis(4-methylphenyl)-

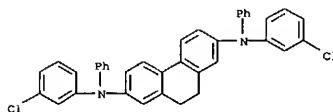
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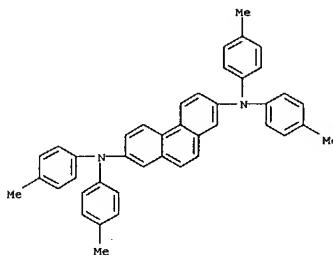
RN 144727-00-4 CAPLUS  
CN 2,7-Phenanthrendiamine, N-(2,4-dimethylphenyl)-9,10-dihydro-N,N'-bis(3-methylphenyl)- (9CI) (CA INDEX NAME)



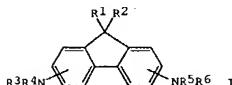
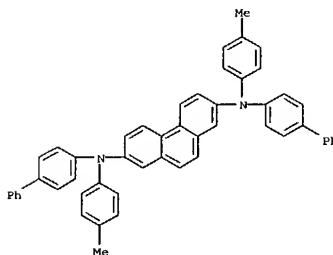
RN 144727-01-5 CAPLUS  
CN 2,7-Phenanthrendiamine, N,N'-bis(3-chlorophenyl)-9,10-dihydro-N,N'-diphenyl- (9CI) (CA INDEX NAME)



RN 144727-03-7 CAPLUS  
CN 2,7-Phenanthrendiamine, N,N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)



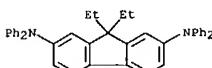
RN 144727-05-9 CAPLUS  
CN 2,7-Phenanthrendiamine, N,N'-bis([1,1'-biphenyl]-4-yl)-N,N'-bis(4-methylphenyl)- (9CI) (CA INDEX NAME)



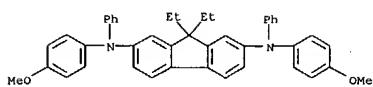
AB The title photoreceptors have charge-generating layers containing oxytitanium phthalocyanine pigments and charge-transporting layers containing fluorene compds. I [R<sub>1</sub>-2 = H, halo, OH, alkyl, alkoxy, aralkyl, aryl; R<sub>3</sub>-6 = alkyl, aralkyl, aryl].  
ACCESSION NUMBER: 1992:623068 CAPLUS  
DOCUMENT NUMBER: 117:223068  
TITLE: Electrophotographic photoreceptors containing oxytitanium phthalocyanine pigment and fluorene compound  
INVENTOR(S): Senoo, Akihiro; Kikuchi, Norihiro; Tanaka, Takakazu  
PATENT ASSIGNEE(S): Canon K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04159558	A2	19920602	JP 1990-286399	19901023
PRIORITY APPLN. INFO.:			JP 1990-286399	19901023
IT 114462-25-6	114494-32-5	143886-07-1		
143886-08-2	143886-09-3	143886-10-6		
143886-11-7	143886-12-8	143886-13-9		
143886-14-0	143886-15-1	143886-16-2		
RI: USES (Uses): (electrophotog., photoreceptor containing, charge-transporting agent)				

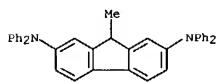
RN 114402-25-6 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N'-bis(4-methoxyphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



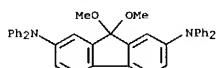
RN 114494-32-5 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N'-bis(4-methoxyphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



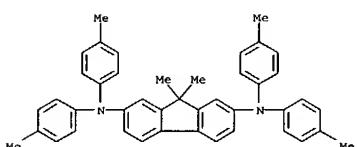
RN 143886-07-1 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9-methyl-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



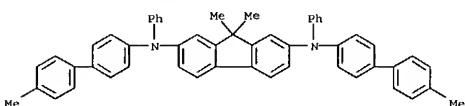
RN 143886-08-2 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-dimethoxy-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



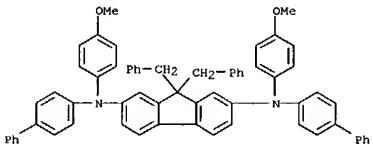
RN 143886-09-3 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-dimethyl-N,N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)



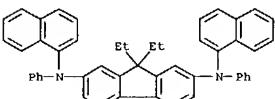
RN 143886-10-6 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N-bis(4-butylphenyl)-9,9-dimethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



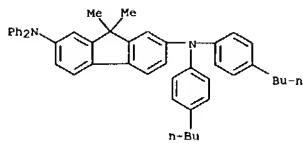
RN 143886-15-1 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N'-bis([1,1'-biphenyl]-4-yl)-N,N'-bis(4-methoxyphenyl)-9,9-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



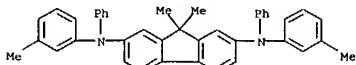
RN 143886-16-2 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N'-di-1-naphthalenyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



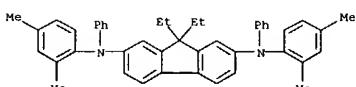
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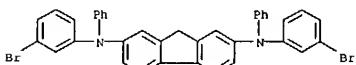
RN 143886-11-7 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-dimethyl-N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



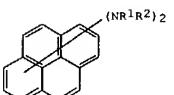
RN 143886-12-8 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N'-bis(2,4-dimethylphenyl)-9,9-diethyl-N,N'-diphenyl- (9CI) (CA INDEX NAME)



RN 143886-13-9 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-bromophenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



RN 143886-14-0 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-dimethyl-N,N'-bis(4'-methyl[1,1'-biphenyl]-4-yl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



I

AB The photoreceptors comprise a conductive support with a coating of a photosensitive layer containing 2l diaminopyrene compound I [R1=2 = (substituted) alkyl or aryl, except 1,6-diaminopyrene]. The photoreceptors show good photosensitivity, thermal resistance, and mech. strength. Thus, an Al vapor-deposited polyester film was coated with a charge-generating layer containing Diana Blue and a charge-transporting layer

containing N,N,N',N'-tetrakis(4-methylphenyl)-1,3-diaminopyrene to give a photoreceptor.

ACCESSION NUMBER: 1992:560887 CAPLUS

DOCUMENT NUMBER: 117:160887

TITLE: Electrophotographic photoreceptors using diaminopyrene

INVENTOR(S): Shimada, Tomoyuki; Sasaki, Masaomi; Ariga, Tamotsu

PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXKAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

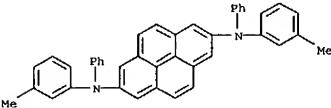
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04110658	A2	19920420	JP 1990-175561	19900702
JP 3030441	B2	20000410		

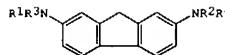
PRIORITY CLAIM INFO.: JP 1990-140887 A1 19900530

IT 143141-30-4

R1: USES (Uses)  
(charge-transporting agent, electrophotog. photoreceptor using)

RN 143141-30-4 CAPLUS  
CN 2,7-Pyrenediamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)





AB The photoreceptors comprise a conductive support with a coating of a photosensitive layer containing fluorene derivative I [R1-4 = (substituted) aryl].

The photoreceptors show high photosensitivity and good charge stability in repeated use. Thus, an Al substrate was coated with a charge-generating layer containing a bisazo pigment and with a charge-transporting layer containing

I (R1-2 = PhC6H4-m, R3-4 = Ph) to give a photoreceptor.

ACCESSION NUMBER: 1992458899 CAPLUS

DOCUMENT NUMBER: 117:58899

TITLE: Electrophotographic photoreceptors using fluorene derivative charge-transporting agent

INVENTOR(S): Kikuchi, Norihiro; Kanamaru, Tetsuo; Senoo, Akihiro; Tanaka, Takakazu

PATENT ASSIGNEE(S): Canon K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04078859	A2	19920312	JP 1990-192674	19900720
JP 2728967	B2	19980318		

PRIORITY APPLN. INFO.: JP 1990-192674 19900720

OTHER SOURCE(S): MARPAT 117:58899

IT 142517-33-7 142517-34-8 142517-35-9

142517-36-0 142517-37-1 142517-38-2

142517-39-3 142517-40-6 142517-41-7

142517-42-8 142541-90-0 142541-91-1

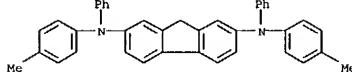
RL: USES (Uses)

(charge-transporting agent, electrophotog. photoreceptor using)

RN 142517-33-7 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-ethylphenyl)-N,N'-diphenyl- (9CI)

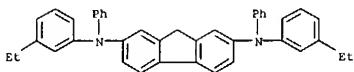
(CA INDEX NAME)



RN 142517-34-8 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-ethylphenyl)-N,N'-diphenyl- (9CI)

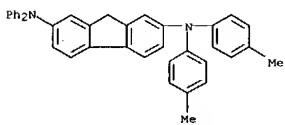
(CA INDEX NAME)



RN 142517-35-9 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis(4-methylphenyl)-N,N'-diphenyl- (9CI)

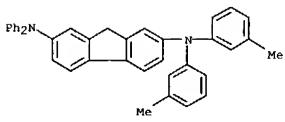
(CA INDEX NAME)



RN 142517-36-0 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI)

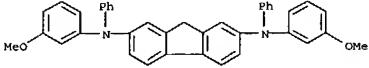
(CA INDEX NAME)



RN 142517-37-1 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-methoxyphenyl)-N,N'-diphenyl- (9CI)

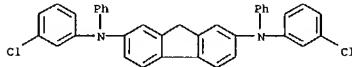
(CA INDEX NAME)



RN 142517-38-2 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-chlorophenyl)-N,N'-diphenyl- (9CI)

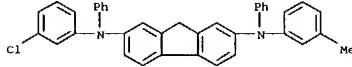
(CA INDEX NAME)



RN 142517-39-3 CAPLUS

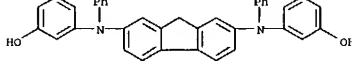
CN 9H-Fluorene-2,7-diamine, N-(3-chlorophenyl)-N'-(3-methylphenyl)-N,N'-diphenyl- (9CI)

(CA INDEX NAME)



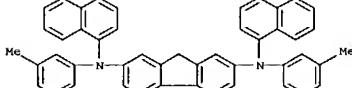
RN 142517-40-6 CAPLUS

CN Phenol, 3,3'-[9H-fluorene-2,7-diyl]bis(phenylimino)bisis- (9CI) (CA INDEX NAME)



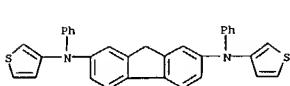
RN 142517-41-7 CAPLUS

CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-methylphenyl)-N,N'-di-1-naphthalenyl- (9CI) (CA INDEX NAME)

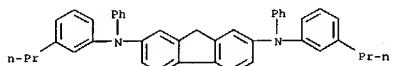


RN 142517-42-8 CAPLUS

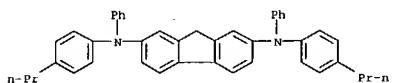
CN 9H-Fluorene-2,7-diamine, N,N'-diphenyl-N,N'-di-3-thienyl- (9CI) (CA INDEX NAME)



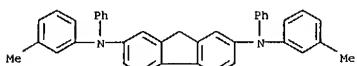
L4 ANSWER 215 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
RN 142541-90-0 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N'-diphenyl-N,N'-bis(3-propylphenyl)- (9CI)  
(CA INDEX NAME)



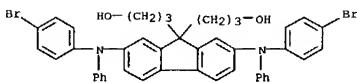
RN 142541-91-1 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N'-diphenyl-N,N'-bis(4-propylphenyl)- (9CI)  
(CA INDEX NAME)



IT 142517-32-6P  
RL: PREP (Preparation)  
(preparation of, charge-transporting agent, electrophotog.  
photoreceptor  
uses)  
RN 142517-32-6 CAPLUS  
CN 9H-Fluorene-2,7-diamine, N,N'-bis(3-methylphenyl)-N,N'-diphenyl- (9CI)  
(CA INDEX NAME)



L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



CM 2

CRN 59472-36-5  
CMF C10 H14 O4  
CCI IDS



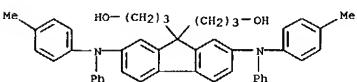
2 [ HO-CH<sub>2</sub>-CH<sub>2</sub>-O-D1 ]

CM 3

CRN 111-20-6  
CMF C10 H18 O4

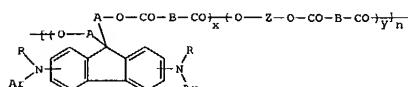
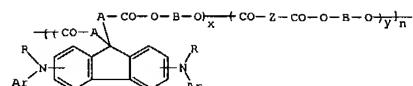
HO<sub>2</sub>C-(CH<sub>2</sub>)<sub>8</sub>-CO<sub>2</sub>H

RN 137892-37-6 CAPLUS  
CN Octanedioic acid, polymer with 2,7-bis[(4-methylphenyl)phenylamino]-9H-fluorene-9,9-dipropanol (9CI) (CA INDEX NAME)  
CM 1  
CRN 137892-36-5  
CMF C45 H44 N2 O2



CM 2

L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN  
GI



AB A layered photoresponsive imaging member is described comprised of a photogenerating layer, and in contact therewith a hole transporting layer comprised of fluorene charge transport polyesters: I and II [A, B, Z = bifunctional groups; R = alkyl or aryl group; Ar = acryl; x and y are mole fractional nos.; x > 0, n + y = 1 and n represents the number of repeating

cyclic segments]. A photoconductor containing the above compound has improved stability and elec. properties.

ACCESSION NUMBER: 1992-72244 CAPLUS  
DOCUMENT NUMBER: 116-72244  
TITLE: Photoconductive imaging members with fluorene polyester hole transporting layers  
INVENTOR(S): Onei Beng S.; Baranyi, Giuseppa; Alexandru, Lupu  
PATENT ASSIGNEE(S): Xerox Corp., USA  
SOURCE: U.S., 15 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DRTE
US 5034296	A	19910723	US 1989-332655	19890403

PRIORITY APPLN. INFO.: US 1989-332655 19890403  
IT 137891-76-0 137892-37-6 137892-39-8  
137912-27-7 137912-28-8 138105-61-0  
138626-49-0 138626-58-1  
RL: USES (Uses)  
(as charge-transporting agent in photoconductor)

RN 137891-76-0 CAPLUS  
CN Decanedioic acid, polymer with 2,7-bis[(4-bromophenyl)phenylamino]-9H-fluorene-9,9-dipropanol and 2,2'-(phenylenebis(oxy))bis[ethanol] (9CI) (CA INDEX NAME)

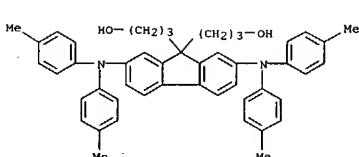
CM 1  
CRN 137891-75-9  
CMF C43 H38 Br2 N2 O2

L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
CRN 505-48-6  
CMF C8 H14 O4

HO<sub>2</sub>C-(CH<sub>2</sub>)<sub>6</sub>-CO<sub>2</sub>H

RN 137892-39-8 CAPLUS  
CN Decanedioic acid, polymer with 2,7-bis[(4-methylphenyl)amino]-9H-fluorene-9,9-dipropanol (9CI) (CA INDEX NAME)

CM 1  
CRN 137892-38-7  
CMF C47 H48 N2 O2

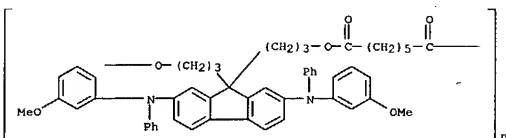


CM 2

CRN 111-20-6  
CMF C10 H18 O4

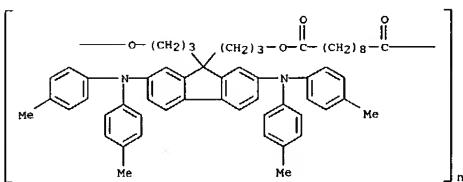
HO<sub>2</sub>C-(CH<sub>2</sub>)<sub>8</sub>-CO<sub>2</sub>H

RN 137912-27-7 CAPLUS  
CN Poly[oxy-1,3-propanediyl[2,7-bis[(3-methoxyphenyl)phenylamino]-9H-fluorene-9-ylidene]-1,3-propanediyl oxy(1,7-dioxo-1,7-heptanediyl)] (9CI) (CA INDEX NAME)

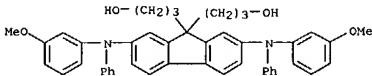


RN 137912-28-8 CAPLUS

L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 CN Poly[oxy-1,3-propanediyl[2,7-bis(4-methylphenyl)amino]-9H-fluoren-9-ylidene]-1,3-propanediyoxy(1,10-dioxo-1,10-decanediyl)] (9CI) (CA INDEX NAME)



RN 138105-61-0 CAPLUS  
 CN Heptanedioic acid, polymer with 2,7-bis[(3-methoxyphenyl)phenylamino]-9H-fluorene-9,9-dipropanol (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 137388-34-2  
 CMF C45 H44 N2 O4

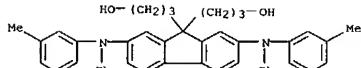


CM 2  
 CRN 111-16-0  
 CMF C7 H12 O4

HO<sub>2</sub>C-(CH<sub>2</sub>)<sub>5</sub>-CO<sub>2</sub>H

RN 138626-49-0 CAPLUS  
 CN Nonanediolyl dichloride, polymer with 2,7-bis[(3-methylphenyl)phenylamino]-9H-fluorene-9,9-dipropanol and 1,6-hexanediol (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 137269-26-2  
 CMF C45 H44 N2 O2

L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



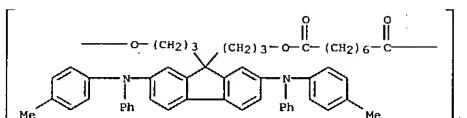
CM 2  
 CRN 629-11-8  
 CMF C6 H14 O2

HO-(CH<sub>2</sub>)<sub>6</sub>-OH

CM 3  
 CRN 123-98-8  
 CMF C9 H14 Cl2 O2

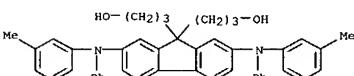


RN 138626-58-1 CAPLUS  
 CN Poly[oxy-1,3-propanediyl[2,7-bis[(4-methylphenyl)phenylamino]-9H-fluoren-9-ylidene]-1,3-propanediyoxy(1,8-dioxo-1,8-octanediyil)] (9CI) (CA INDEX NAME)

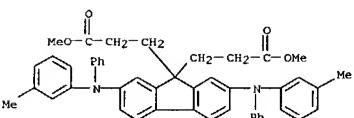


IT 137269-26-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and copolymer. of)  
 RN 137269-26-2 CAPLUS  
 CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(3-methylphenyl)phenylamino]- (9CI) (CA INDEX NAME)

L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



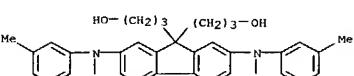
IT 137376-13-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of)  
 RN 137376-13-7 CAPLUS  
 CN 9H-Fluorene-9,9-dipropanoic acid, 2,7-bis[(3-methylphenyl)phenylamino]-, dimethyl ester (9CI) (CA INDEX NAME)



IT 137892-35-4P 137892-40-1P 137912-26-6P  
 137912-29-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and use of, as charge-transporting agent in photoconductor)

RN 137892-35-4 CAPLUS  
 CN Nonanediolyl dichloride, polymer with 2,7-bis[(3-methylphenyl)phenylamino]-9H-fluorene-9,9-dipropanol (9CI) (CA INDEX NAME)

CM 1  
 CRN 137269-26-2  
 CMF C45 H44 N2 O2



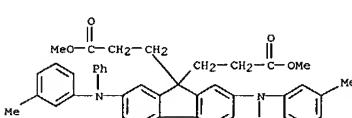
CM 2  
 CRN 123-98-8  
 CMF C9 H14 Cl2 O2

L4 ANSWER 216 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 137892-40-1 CAPLUS  
 CN 9H-Fluorene-9,9-dipropanoic acid, 2,7-bis[(3-methylphenyl)phenylamino]-, dimethyl ester, polymer with 1,6-hexanediol (9CI) (CA INDEX NAME)

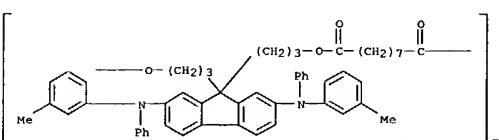
CM 1  
 CRN 137376-13-7  
 CMF C47 H44 N2 O4



CM 2  
 CRN 629-11-8  
 CMF C6 H14 O2

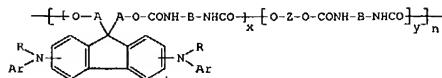
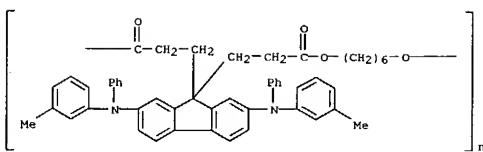
HO-(CH<sub>2</sub>)<sub>6</sub>-OH

RN 137912-26-6 CAPLUS  
 CN Poly[oxy-1,3-propanediyl[2,7-bis[(3-methylphenyl)phenylamino]-9H-fluoren-9-ylidene]-1,3-propanediyoxy(1,9-dioxo-1,9-nonanediyil)] (9CI) (CA INDEX NAME)



RN 137912-29-9 CAPLUS  
 CN Poly[oxy-1,6-hexanediyoxy(1-oxo-1,3-propanediyl)[2,7-bis[(3-methylphenyl)phenylamino]-9H-fluoren-9-ylidene]{3-oxo-1,3-propanediyl}] (9CI) (CA INDEX NAME)

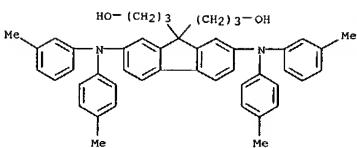
(Continued)



AB A layered photoresponsive imaging member is described comprising a photogenerating layer, and in contact therewith a hole transporting layer comprised of charge transport polyurethanes I [A,B,Z group of bifunctional linkages; R = alkyl or aryl; Ar = aryl; and y represent the mole fraction nos. of the polyurethane structural composition units, subject to the provision that x > 0 and x + y = 1; and n represents the number of repeating segments. An electrostatic imaging method using the above polymethanes is also described. The material is useful in laser scanning imaging.

ACCESSION NUMBER: 1991666750 CAPLUS  
DOCUMENT NUMBER: 115:266750  
TITLE: Photoconductive imaging members with polyurethane hole transporting layers  
INVENTOR(S): Ong, Beng S.; Murti, Dasarao K.; Alexandru, Lupu  
PATENT ASSIGNEE(S): Xerox Corp., USA  
SOURCE: U.S., 15 pp.  
CODEN: USAXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4982492	A	19910108	US 1989-332650	19890403
PRIORITY APPN. INFO.:			US 1989-332650	
IT 137222-33-4	137222-41-4	137222-89-0		
137304-92-8				
RL: USES (Uses) (charge-transporting agent, in photoconductor)				
RN 137222-33-4 CAPLUS				
CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(3-methylphenyl)(4-methylphenyl)amino]- , polymer with diisocyanatobenzene (9CI) (CA INDEX NAME)				
CM 1				
CRN 137222-32-3				
CMF C47 H48 N2 O2				



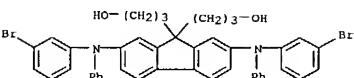
CM 2

CRN 27359-20-2  
CMF C8 H4 N2 O2  
CCI IDS

2 (D1-NCO)

RN 137222-41-4 CAPLUS  
CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(3-bromophenyl)phenylamino]-, polymer with 1,6-hexanediol and 1,1'-methylenebis(isocyanatobenzene) (9CI) (CA INDEX NAME)

CM 1

CRN 137222-40-3  
CMF C43 H38 Br2 N2 O2

CM 2

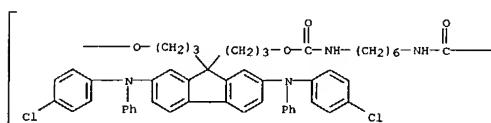
CRN 26447-40-5  
CMF C15 H10 N2 O2  
CCI IDS

D1-NCO

CM 3  
CRN 629-11-8  
CMF C6 H14 O2HO-(CH<sub>2</sub>)<sub>6</sub>-OH

RN 137222-89-0 CAPLUS  
CN Poly[oxy-1,3-propanediyl[2,7-bis[(4-chlorophenyl)phenylamino]-9H-fluoren-9-ylidene]-1,3-propanediylloxycarbonylimino-1,6-hexanediyliminocarbonyl] (9CI) (CA INDEX NAME)

PAGE 1-A



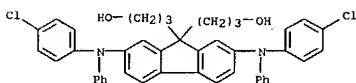
PAGE 1-B

RN 137304-92-8 CAPLUS  
CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(4-chlorophenyl)phenylamino]-, polymer

L4 ANSWER 217 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
with 1,6-diisocyanatohexane (9CI) (CA INDEX NAME)

CM 1

CRN 137304-91-7  
CMF C43 H38 Cl2 N2 O2



CM 2

CRN 822-06-0  
CMF C8 H12 N2 O2

OCN-(CH<sub>2</sub>)<sub>6</sub>-NCO

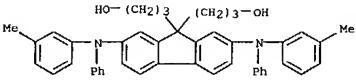
IT 137269-26-2P 137376-13-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, charge-transporting polyurethane from)

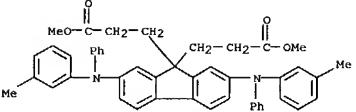
RN 137269-26-2 CAPLUS

CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(3-methylphenyl)phenylamino]- (9CI) (CA INDEX NAME)



RN 137376-13-7 CAPLUS

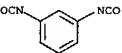
CN 9H-Fluorene-9,9-dipropanoic acid, 2,7-bis[(3-methylphenyl)phenylamino]-, dimethyl ester (9CI) (CA INDEX NAME)



IT 137269-27-3P 137323-88-7P 137388-35-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation and use of, as charge-transporting agent in photoconductor)

L4 ANSWER 217 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
CCI IDS



D1-Me

CM 3

CRN 111-46-6  
CMF C4 H10 O3

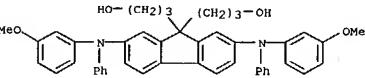
HO-CH<sub>2</sub>-CH<sub>2</sub>-O-CH<sub>2</sub>-CH<sub>2</sub>-OH

RN 137388-35-3 CAPLUS

CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(3-methoxyphenyl)phenylamino]-, polymer with 1,3-diisocyanatomethylbenzene (9CI) (CA INDEX NAME)

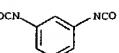
CM 1

CRN 137388-34-2  
CMF C45 H44 N2 O4



CM 2

CRN 26471-62-5  
CMF C9 H6 N2 O2  
CCI IDS



D1-Me

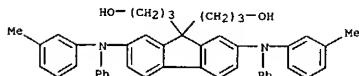
L4 ANSWER 217 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 137269-27-3 CAPLUS  
CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(3-methylphenyl)phenylamino]-, polymer

with 1,3-diisocyanatomethylbenzene (9CI) (CA INDEX NAME)

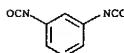
CM 1

CRN 137269-26-2  
CMF C45 H44 N2 O2



CM 2

CRN 26471-62-5  
CMF C9 H6 N2 O2  
CCI IDS

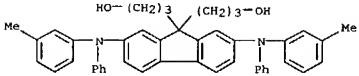


D1-Me

RN 137323-88-7 CAPLUS  
CN 9H-Fluorene-9,9-dipropanol, 2,7-bis[(3-methylphenyl)phenylamino]-, polymer  
with 1,3-diisocyanatomethylbenzene and 2,2'-oxybis(ethanol) (9CI) (CA INDEX NAME)

CM 1

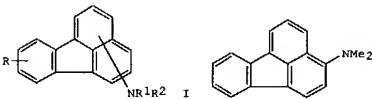
CRN 137269-26-2  
CMF C45 H44 N2 O2



CM 2

CRN 26471-62-5  
CMF C9 H6 N2 O2

L4 ANSWER 218 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN  
GI



AB The title photoreceptor comprises an elec. conductive support with a coating of a photosensitive layer containing a fluoranthene derivative I [ $R = H$ , halo, (substituted) alkyl, alkoxy, or  $NH_2$ ;  $R1, R2 =$  (substituted) alkyl, aralkyl, aryl, or heterocycle,  $R1$  and  $R2$  may form a 5- or 6-membered ring together with the  $N$  atom]. The photoreceptor is easy to prepare, shows good photosensitivity and durability in continuously repeated use. Thus, an Al substrate was coated with a charge-generating layer containing a disazo

pigment and with a charge-transporting layer containing II to give a photoreceptor.

ACCESSION NUMBER: 1991:570936 CAPLUS

DOCUMENT NUMBER: 115:170936

TITLE: Electrophotographic photoreceptor using fluoranthene derivative charge-transporting agent

INVENTOR(S): Yashiro, Ryoji; Kikuchi, Norihiro; Senoo, Akihiko; Kanamaru, Tetsuo

PATENT ASSIGNEE(S): Canon K. K., Japan

SOURCE: Jpn. Kokai Tokyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

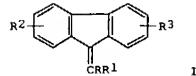
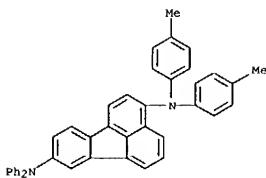
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03070757	A2	19910403	JP 1989-214926	19890823
			JP 1989-214926	19890823

PRIORITY APPLN. INFO.: JP 136480-46-1

RL: USES (Uses) (charge-transporting agent, electrophotog. photoreceptor using)

RN 136480-46-1 CAPLUS

CN 3,8-Fluoranthenediamine, N<sub>3</sub>,N<sub>3</sub>-bis(4-methylphenyl)-N<sub>8</sub>,N<sub>8</sub>-diphenyl- (9CI) (CA INDEX NAME)



**AB:** The photoreceptor comprise a conductive support with a coating of a photosensitive layer containing a fluorenylidene derivative I [R, R1 = (substituted) alkyl, (substituted) azalkyl, (substituted) aromatic or heterocyclic ring; R2, R3 = H, (substituted) alkyl, alkoxy, NO2, halo, substituted amino, Z1 of R, R1, R2, and R3 should be substituted amino or should have amino as a substituent]. The photoreceptors show good photosensitivity, stable potential and good durability in repeated use. Thus, an Al sheet was coated with a charge-generating layer containing a diazo pigment and with a charge-transporting layer containing I (R = R1 =

= p-C6H4NPh2, R2 = R3 = H) to give a photoreceptor.

ACCESSION NUMBER: 1991-153904 CAPLUS

DOCUMENT NUMBER: 114:153904

TITLE: Electrophotographic photoreceptors using fluorenylidene derivative as charge-transporting agent

INVENTOR(S): Suzuki, Koichi; Kikuchi, Norihiro; Kanamaru, Tetsuo  
PATENT ASSIGNEE(S): Canon K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

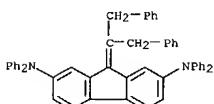
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

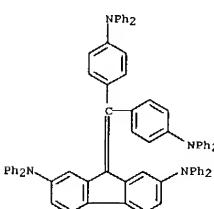
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02167552	A2	19900627	JP 1988-320708	19881221
PRIORITY APPLN. INFO.:				
IT 132871-15-9	132871-22-8	132871-23-9		
132871-24-0	132871-29-5	132871-30-8		
132871-31-9				
RL: USES (Uses)				
RN 132871-15-9 CAPLUS				
CN 9H-Fluorene-2,7-diamine, N,N,N',N'-tetraphenyl-9-[2-phenyl-1-(phenylmethyl)ethylidene]- (9CI) (CA INDEX NAME)				



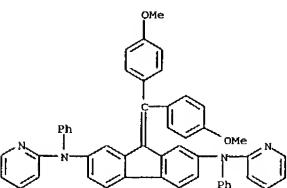
RN 132871-22-8 CAPLUS

CN 9H-Fluorene-2,7-diamine, 9-[bis(4-diphenylamino)phenylmethylene]-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



RN 132871-23-9 CAPLUS

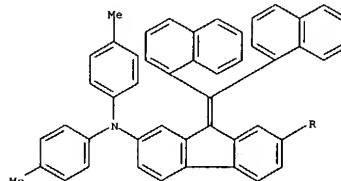
CN 9H-Fluorene-2,7-diamine, 9-[bis(4-methoxyphenyl)methylene]-N,N'-diphenyl-N,N'-di-2-pyridinyl- (9CI) (CA INDEX NAME)



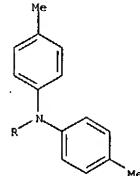
RN 132871-24-0 CAPLUS

CN 9H-Fluorene-2,7-diamine, 9-(di-1-naphthalenylmethylene)-N,N,N',N'-tetraakis(4-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

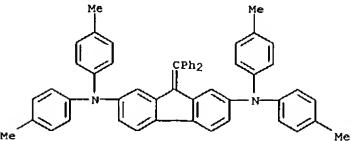


PAGE 2-A



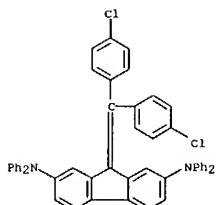
RN 132871-29-5 CAPLUS

CN 9H-Fluorene-2,7-diamine, 9-(diphenylmethylene)-N,N,N',N'-tetrakis(4-methylphenyl)- (9CI) (CA INDEX NAME)

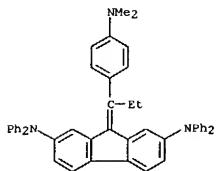


RN 132871-30-8 CAPLUS

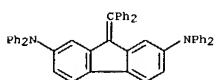
CN 9H-Fluorene-2,7-diamine, 9-[bis(4-chlorophenyl)methylene]-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



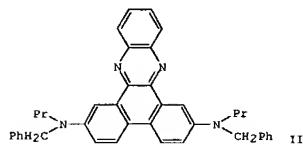
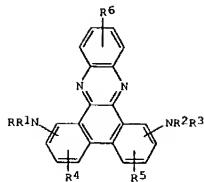
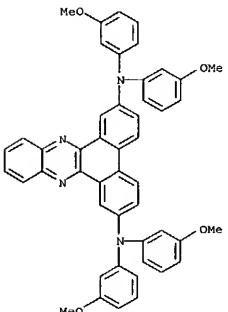
RN 132871-31-9 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9-[1-[4-(dimethylamino)phenyl]propylidene]-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



IT 132871-13-7P  
RL: PREP (Preparation)  
(preparation of, charge-transporting agent, electrophotog.  
photoreceptor  
using)  
RN 132871-13-7 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9-(diphenylmethylene)-N,N,N',N'-tetraphenyl-  
(9CI) (CA INDEX NAME)



L4 ANSWER 220 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
RN 130821-10-2 CAPLUS  
CN Dibenzo[a,c]phenazine-2,7-diamine, N,N,N',N'-tetrakis(3-methoxyphenyl)-  
(9CI) (CA INDEX NAME)

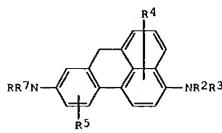


AB The title photoreceptors comprise a conductive support with a coating of  
a photosensitive layer containing a phenazine derivative I [R, R1-3= H,  
(substituted) alkyl, aralkyl, aryl, heterocycle, R and R1, R2 and R3 may  
form a 5- to 7-membered ring; R4-6 = H, (substituted) alkyl, alkoxy,  
halo, NO2]. A photoreceptor using a bisazo pigment and II showed good  
photosensitivity and durability.

ACCESSION NUMBER: 1991:14907 CAPLUS  
DOCUMENT NUMBER: 114:14907  
TITLE: Electrophotographic photoreceptors using phenazine  
derivative as charge-transporting agent  
INVENTOR(S): Kanamaru, Tetsuro; Kikuchi, Norihiro; Suzuki, Koichi  
PATENT ASSIGNEE(S): Canon K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02134644	A2	19900523	JP 1988-286861	19881115
PRIORITY APPLN. INFO.:			JP 1988-286861	19881115

IT 130821-10-2  
RL: USES (Uses)  
(charge-transporting agent, electrophotog. photoreceptor using)



AB The electrophotog. photoreceptors have a photosensitive layer containing  
a diaminobenzanthrene derivative of the formula I [R, R1-3 =  
(un)substituted  
alkyl, aryl, aralkyl, identical or different; R4, R5 = halo, alkyl,  
alkoxy, NO2, CN, identical or different]. The photoreceptors exhibit  
good sensitivity and durability. Thus, an Al sheet was coated with a  
charge-generating composition containing a bisazo pigment and a butyral  
resin, then  
coated with a charge-transporting composition containing I (R, R1-3 =  
benzyl; R4,  
R5 = H) and polycarbonate to give a photoreceptor, which was  
corona-discharged at -5 kV. The original potential, retained potential  
after 1 s in the dark, and exposure required to halve the retained  
potential were -700 V, -695 V, and 2.3 lx-s, resp.

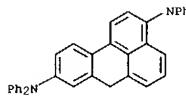
ACCESSION NUMBER: 1990:226763 CAPLUS  
DOCUMENT NUMBER: 112:226763  
TITLE: Electrophotographic photoreceptors containing  
diaminobenzanthrene derivatives  
INVENTOR(S): Shino, Yasuko; Kikuchi, Norihiro  
PATENT ASSIGNEE(S): Canon K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01271755	A2	19891030	JP 1988-100366	19880425
JP 08033665	B4	19960329		

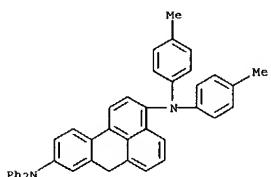
PRIORITY APPLN. INFO.: MARPAT 112:226763  
OTHER SOURCE(S): IT 127105-80-0 127105-83-3 127105-88-0

IT 127105-89-9  
RL: USES (Uses)  
(electrophotog. photoreceptor containing, for durability)

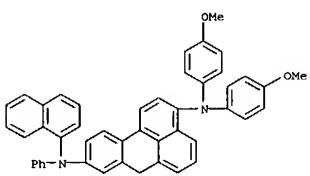
RN 127105-80-0 CAPLUS  
CN 7H-Benz[de]anthracene-3,9-diamine, N,N,N',N'-tetraphenyl- (9CI) (CA  
INDEX NAME)



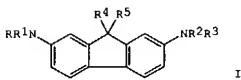
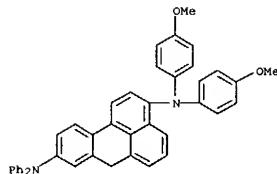
RN 127105-83-3 CAPLUS  
CN 7H-Benz[de]anthracene-3,9-diamine, N3,N3-bis(4-methylphenyl)-N9,N9-diphenyl- (9CI) (CA INDEX NAME)



RN 127105-88-8 CAPLUS  
CN 7H-Benz[de]anthracene-3,9-diamine, N3,N3-bis(4-methoxyphenyl)-N9-1-naphthalenyl-N9-phenyl- (9CI) (CA INDEX NAME)



RN 127105-89-9 CAPLUS  
CN 7H-Benz[de]anthracene-3,9-diamine, N3,N3-bis(4-methoxyphenyl)-N9,N9-diphenyl- (9CI) (CA INDEX NAME)



AB An electrophotog. photoreceptor is comprised of a layer containing I (R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub> = (un)substituted alkyl, aryl, or aralkyl; R and R<sub>1</sub> or R<sub>2</sub> and R<sub>4</sub> together form a heterocycle; and R<sub>5</sub> or R<sub>6</sub> may be H). A durable electrophotog. photoreceptor having high sensitivity and improved light and elec.-potential stabilities was comprised of a layer containing a charge-transport material of the formula I (R-R<sub>5</sub> = Et) prepared from 2,7-diaminofluorene and EtBr.

ACCESSION NUMBER: 1988:213876 CAPLUS

DOCUMENT NUMBER: 108:213876

TITLE: Electrophotographic photoconductor

INVENTOR(S): Kikuchi, Norihiro; Takiguchi, Takao; Takahashi, Hideyuki; Umehara, Masahige; Matsumoto, Masakazu

PATENT ASSIGNEE(S): Canon K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.

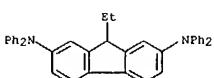
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

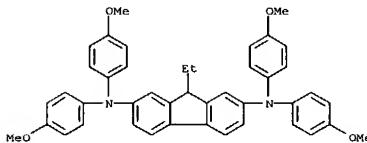
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

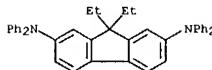
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62208054	A2	19870912	JP 1986-49553	19860308
JP 06079165	B4	19941005		
PRIORITY APPLN. INFO.:		JP 1986-49553		19860308
IT 114482-18-7	114482-19-8	114482-25-6		
114482-31-4	114494-32-5			
RL: USES (Uses)		(charge-transport materials, for electrophotog. photoreceptors)		
RN 114482-18-7 CAPLUS				
CN 9H-Fluorene-2,7-diamine, 9-ethyl-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)				



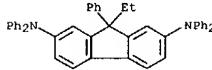
RN 114482-19-8 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9-ethyl-N,N,N',N'-tetrakis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



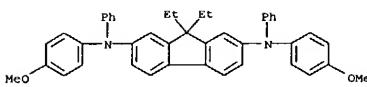
RN 114482-25-6 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9,9-diethyl-N,N,N',N'-tetraphenyl- (9CI) (CA INDEX NAME)



RN 114482-31-4 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9-ethyl-N,N,N',N'-pentaphenyl- (9CI) (CA INDEX NAME)



RN 114494-32-5 CAPLUS  
CN 9H-Fluorene-2,7-diamine, 9-ethyl-N,N-bis(4-methoxyphenyl)-N,N'-diphenyl- (9CI) (CA INDEX NAME)



## L4 ANSWER 223 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN

GI For diagram(s), see printed CA Issue.

AB An electrophotog. photoreceptor is claimed which comprises a charge-transport layer containing a compound represented by I [X = moiety required for ring closure selected from O, SO, SO<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>, CO, COCH<sub>2</sub>, CONH, N:N; R<sub>1</sub>-R<sub>4</sub> = alkyl, aralkyl, aryl, heterocyclic group], wherein the photoreceptor is a separated function type further comprising a charge-generating layer.

ACCESSION NUMBER: 1988:177186 CAPLUS

DOCUMENT NUMBER: 108:177186

TITLE: Organic charge transport layer in electrophotographic photoreceptor

INVENTOR(S): Yamashita, Masataka; Matsumoto, Masakazu; Takiguchi, Takao; Kikuchi, Norihiko; Miyazaki, Hajime

PATENT ASSIGNEE(S): Canon K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62280850	A2	19871205	JP 1986-126855	19860530
JP 2501198	B2	19960529		

PRIORITY APPLN. INFO.: JP 1986-126855 19860530

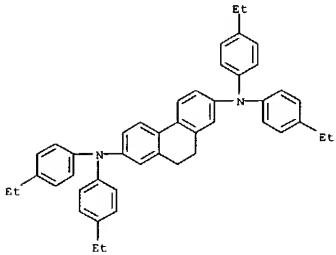
IT 113933-89-4 113933-90-7 113933-91-8

113933-92-9 113933-93-0

RL: USES (Uses)  
(electrophotog. photoconductor)

RN 113933-89-4 CAPLUS

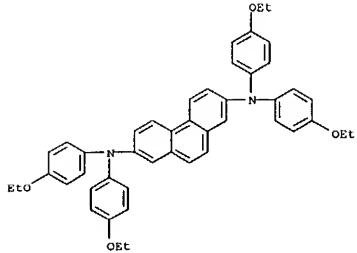
CN 2,7-Phenanthrenediamine, N,N,N',N'-tetrakis(4-ethylphenyl)-9,10-dihydro- (9CI) (CA INDEX NAME)



RN 113933-90-7 CAPLUS

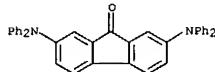
CN 2,7-Phenanthrenediamine, N,N,N',N'-tetrakis(4-ethoxyphenyl)- (9CI) (CA INDEX NAME)

## L4 ANSWER 223 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



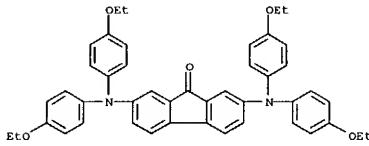
RN 113933-91-8 CAPLUS

CN 9H-Fluoren-9-one, 2,7-bis(diphenylamino)- (9CI) (CA INDEX NAME)



RN 113933-92-9 CAPLUS

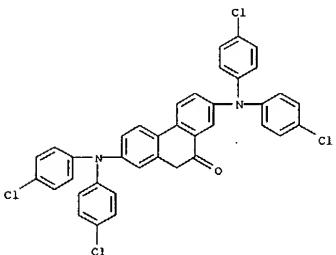
CN 9H-Fluoren-9-one, 2,7-bis[bis(4-ethoxyphenyl)amino]- (9CI) (CA INDEX NAME)



RN 113933-93-0 CAPLUS

CN 9(10H)-Phenanthrenone, 2,7-bis[bis(4-chlorophenyl)amino]- (9CI) (CA INDEX NAME)

## L4 ANSWER 223 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



## L4 ANSWER 224 OF 224 CAPLUS COPYRIGHT 2004 ACS on STN

AB The charge-generating tetrakisazo pigments have the formula (AN:NZ2) (AN:NZ3) NZ1N (2AN:N) (2SN:NA) (I; A = coupler residue with a phenolic OH group; Z1 = arylene, condensed polycyclene; Z2-Z5 = arylene, condensed polycyclene, heterocyclene). An electrophotog. photoreceptors with improved sensitivity and voltage stability for repeated use.

I (A = coupler residue from 3-hydroxy-2-naphthoic acid anilide; Z1 = 3,3'-dichloro-4,4'-biphenylene; Z2-Z5 = 1,4-phenylene) and a poly(vinyl butyral) binder. It provides electrophotog. photoreceptors with improved sensitivity and voltage stability for repeated use.

ACCESSION NUMBER: 1987:565421 CAPLUS

DOCUMENT NUMBER: 107:165421

TITLE: Electrophotographic charge-generating tetrakisazo pigments

INVENTOR(S): Matsumoto, Masakazu; Takiguchi, Takao; Umehara, Masahige; Yamashita, Masataka; Ishikawa, Shozo

PATENT ASSIGNEE(S): Canon K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 38 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62018566	A2	19870127	JP 1985-157700	19850717
US 4666810	A	19870519	US 1986-852243	19860415

PRIORITY APPLN. INFO.: JP 1985-80248 19850717

JP 1985-157699 19850717

JP 1985-157700 19850717

JP 1985-159401 19850718

JP 1985-159402 19850718

JP 1985-159403 19850718

IT 110557-57-8 110557-59-0 110557-60-3

110557-61-4 110557-62-5 110557-65-8

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110557-81-8 110557-82-9 110557-83-0

110557-87-4 110557-88-5 110557-89-6

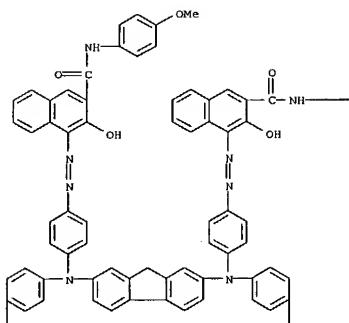
110557-90-9 110573-90-5

RL: USES (Uses)  
(electrophotog. charge-generating pigments)

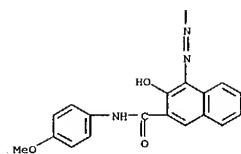
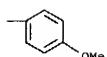
RN 110557-57-8 CAPLUS

CN 2-Naphthalene-carboxamide, 4,4',4'',4'''-[9H-fluorene-2,7-diylibis[nitrilobis(4,1-phenyleneazo)]]-tetrakis[3-hydroxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

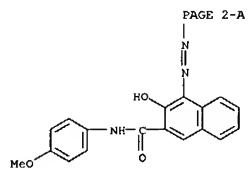
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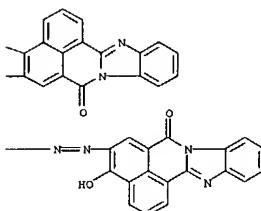
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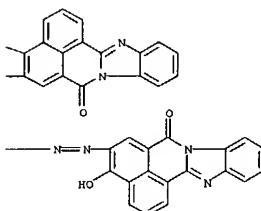
RN 110557-59-0 CAPLUS



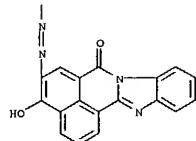
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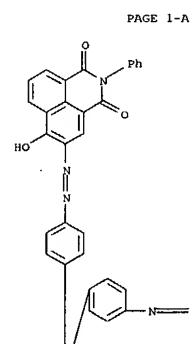
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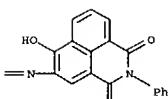
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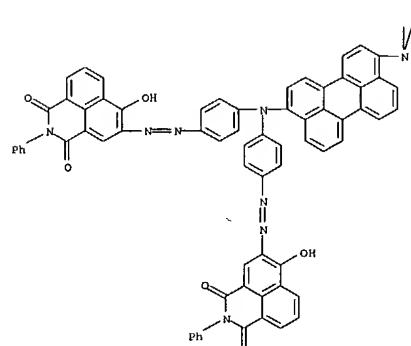
RN 110557-60-3 CAPLUS  
 CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 5,5',5'',5'''-[3,10-  
 perylene]diylbis[nitrilobis(4,1-phenyleneazo)]tetrakis[6-hydroxy-2-phenyl-  
 (9CI) (CA INDEX NAME)



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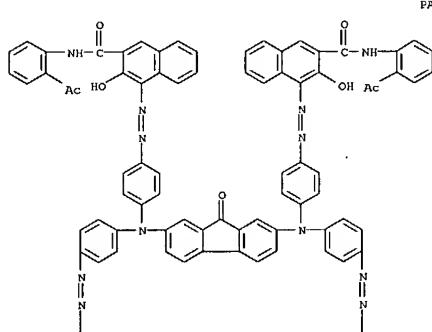
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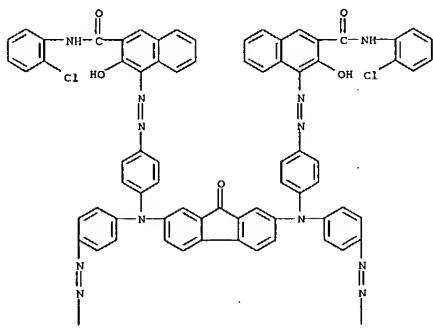
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RN 110557-61-4 CAPLUS  
 CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[(9-oxo-9H-fluorene-2,7-diyl)bis[nitrilobis(4,1-phenyleneazo)]])tetrakis[N-(2-acetylphenyl)-3-hydroxy- (9CI) (CA INDEX NAME)

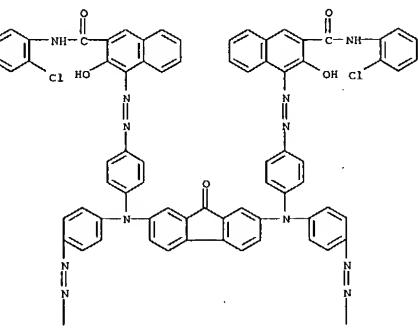


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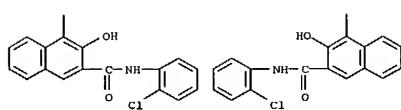


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 CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[(9-oxo-9H-fluorene-2,7-

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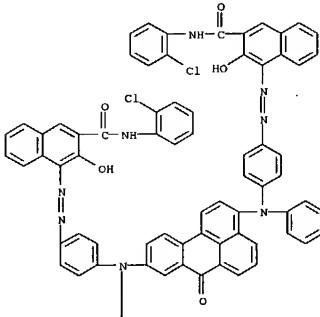


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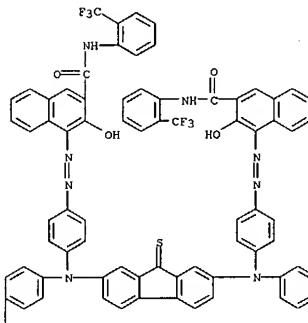


RN 110557-65-8 CAPLUS  
 CN 2-Naphthalenecarboxamide,  
 4,4',4'',4'''-[(7-oxo-7H-benz[de]anthracene-3,9-diyl)bis[nitrilobis(4,1-phenyleneazo)]])tetrakis[N-(2-chlorophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)

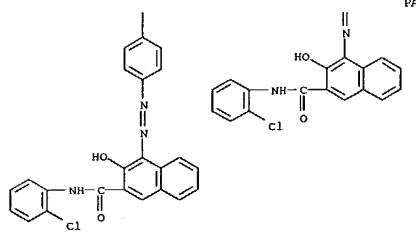
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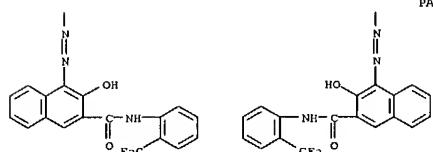
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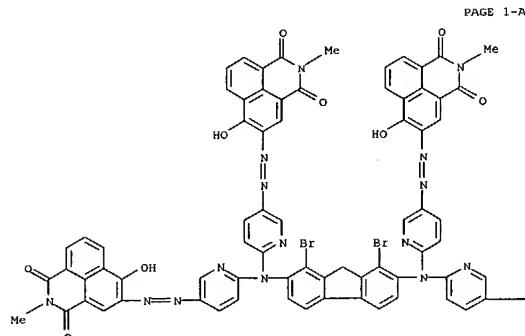


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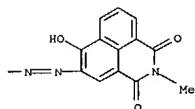


RN 110557-66-9 CAPLUS  
 CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[(9-thiolo-9H-fluorene-2,7-diyl)bis[nitrilobis(4,1-phenyleneazo)]])tetrakis(3-hydroxy-N-(2-(trifluoromethyl)phenyl)- (9CI) (CA INDEX NAME)

RN 110557-78-3 CAPLUS  
 CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 5,5',5'',5'''-[(1,8-dibromo-9H-fluorene-2,7-diyl)bis[nitrilobis(2,5-pyridinediylazo)]])tetrakis(6-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

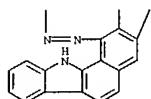


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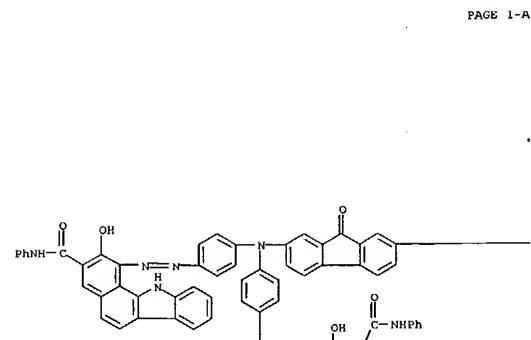
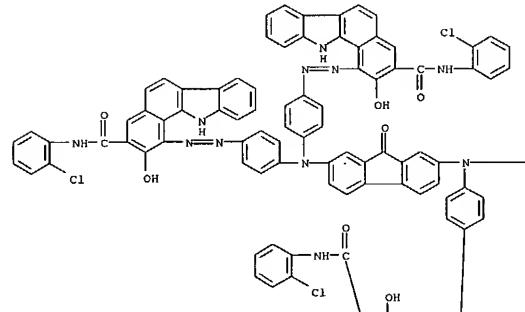
RN 110557-80-7 CAPLUS  
 CN 11H-Benz[a]carbazole-3-carboxamide,  
 $1,1',1'',1'''-$ -[(9-oxo-9H-fluorene-2,7-diyil)bis[nitrilobis(4,1-phenyleneazo)]])tetrakis(2-hydroxy-N-phenyl- (9CI) (CA INDEX NAME)

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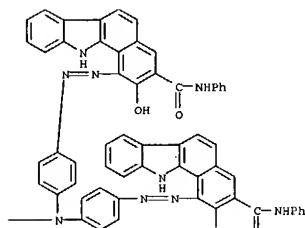


RN 110557-81-8 CAPLUS  
 CN 11H-Benz[a]carbazole-3-carboxamide,  
 $1,1',1'',1'''-$ -[(9-oxo-9H-fluorene-2,7-diyil)bis[nitrilobis(4,1-phenyleneazo)]])tetrakis(N-(2-chlorophenyl)-2-hydroxy- (9CI) (CA INDEX NAME)

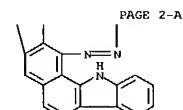
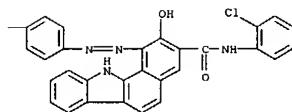
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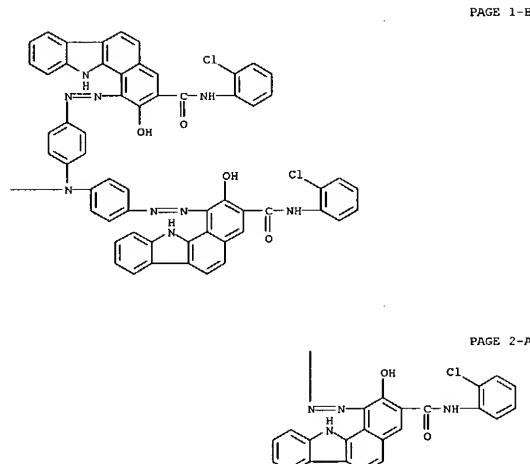
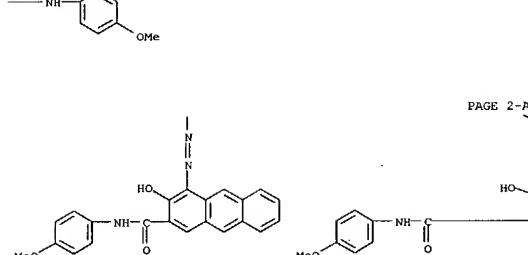
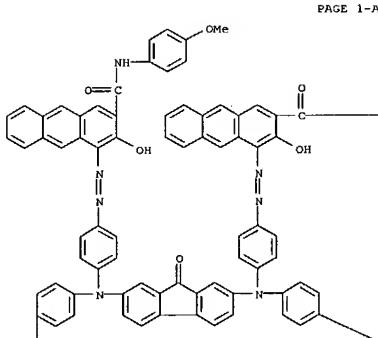
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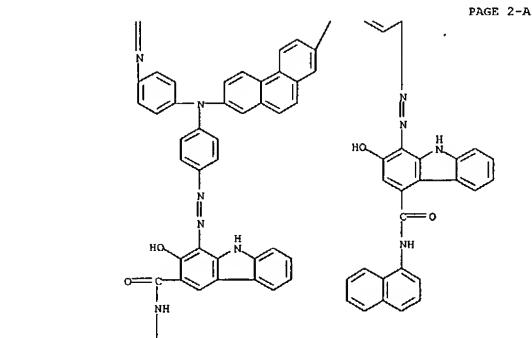
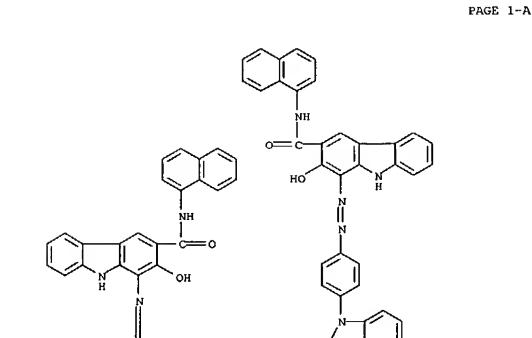
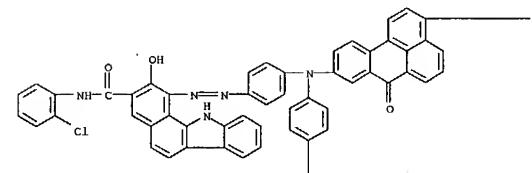
RN 110557-82-9 CAPLUS  
 CN 2-Anthracene-carboxamide, 4,4',4'',4'''-[(9-oxo-9H-fluorene-2,7-diyil)bis[nitrilobis(4,1-phenyleneazo)]])tetrakis[3-hydroxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 110557-87-4 CAPLUS  
CN 9H-Carbazole-3-carboxamide, 1,1',1'',1'''-[2,7-phenanthrenediylbis[nitrilobis(4,1-phenyleneazo)]])tetrakis[2-hydroxy-N-1-naphthalenyl- (9CI) (CA INDEX NAME)



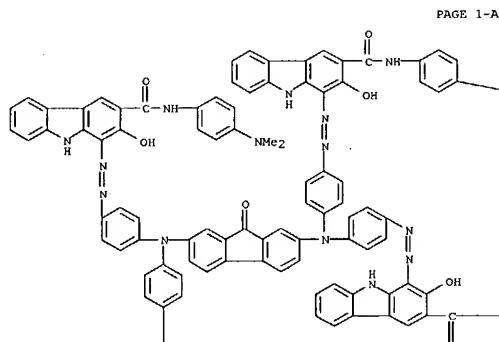
RN 110557-83-0 CAPLUS  
CN 11H-Benz{[a]carbazole-3-carboxamide, 1,1',1'',1'''-[(7-oxo-7H-benz{[de]anthracene-3,9-diyl)bis[nitrilobis(4,1-phenyleneazo)]])tetrakis[N-(2-chlorophenyl)-2-hydroxy- (9CI) (CA INDEX NAME)





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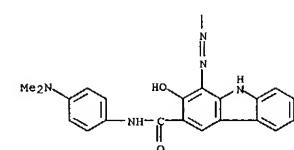
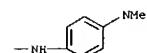
RN 110557-88-5 CAPLUS  
 CN 9H-Carbazole-3-carboxamide, 1,1',1'',1'''-[(9-oxo-9H-fluorene-2,7-diyl)bis[nitrilebis(4,1-phenyleneazo)]tetrakis[N-(4-(dimethylamino)phenyl)-2-hydroxy- (9CI) (CA INDEX NAME)



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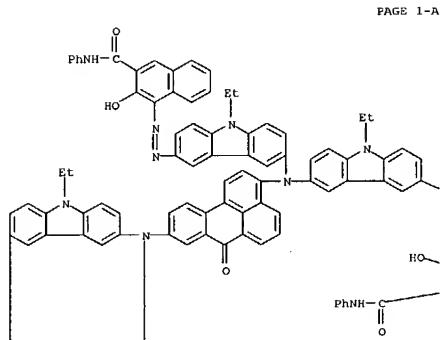
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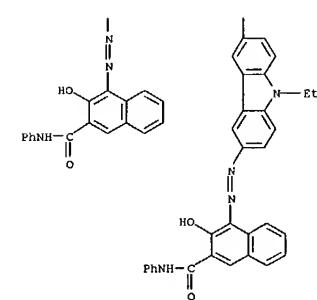
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RN 110557-89-6 CAPLUS  
 CN 2-Naphthalene carboxamide,  
 4,4',4'',4'''-[(7-oxo-7H-benz[de]anthracene-3,9-diyl)bis[nitrilebis(9-ethyl-9H-carbazole-3,6-diyl)azo]]tetrakis[3-hydroxy-N-phenyl- (9CI) (CA INDEX NAME)



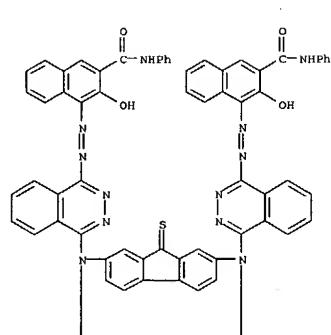
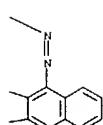
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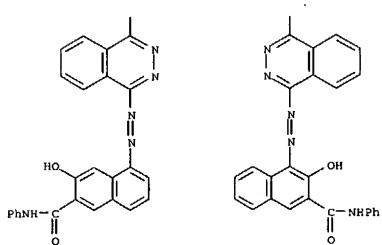
RN 110557-90-9 CAPLUS  
 CN 2-Naphthalene carboxamide, 4,4',4'',4'''-[(9-thioxo-9H-fluorene-2,7-diyl)bis[nitrilebis(4,1-phthalazinediylazo)])tetrakis[3-hydroxy-N-phenyl- (9CI) (CA INDEX NAME)

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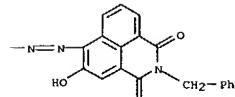
PAGE 1-A

PAGE 2-A

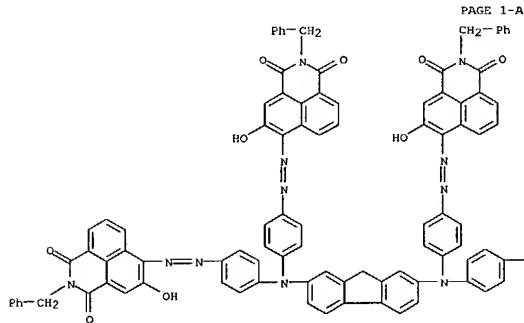


RN 110573-90-5 CAPIUS  
 CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 6,6',6'',6'''-[9H-fluorene-2,7-diylbis[nitrilobis(4,1-phenyleneazo)]])tetraakis[5-hydroxy-2-(phenylmethyl)-(9CI) (CA INDEX NAME)

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	121.54	277.44
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-17.33	-17.33

STN INTERNATIONAL LOGOFF AT 16:21:56 ON 17 FEB 2004